

CALIFORNIA HIGH-SPEED TRAIN

Conceptual Engineering Plans

In-Progress Draft
Not for Construction

Los Angeles To San Diego

Subsection 2-Ontario International Airport
to Murrieta/Temecula (M/T)

March 3, 2011

Mike Zdon
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 CALIFORNIA
High-Speed Rail Authority

 U.S. Department of Transportation
Federal Railroad Administration



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Sheet No.	Drawing No.	Title Description 1	Alignment Segment	Title Description 2	Title Description 3
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19	TJ1009	Subsection 2-Ontario to Murrieta/Temecula	S2-A1/A2/A3	S2-A1/A2/A3: I-215	Plan and Profile
20	TJ1010	Subsection 2-Ontario to Murrieta/Temecula	S2-A1/A2/A3	S2-A1/A2/A3: I-215	Plan and Profile
21	TJ1011	Subsection 2-Ontario to Murrieta/Temecula	S2-A1/A2/A3	S2-A1/A2/A3: I-215	Plan and Profile
22	TJ1012	Subsection 2-Ontario to Murrieta/Temecula	S2-A1/A2/A3	S2-A1/A2/A3: I-215	Plan and Profile
23	TJ1013	Subsection 2-Ontario to Murrieta/Temecula	S2-A1/A2/A3	S2-A1/A2/A3: I-215	Plan and Profile
24	TJ1014	Subsection 2-Ontario to Murrieta/Temecula	S2-A1/A2/A3	S2-A1/A2/A3: I-215	Plan and Profile
25	TJ1015	Subsection 2-Ontario to Murrieta/Temecula	S2-A2	S2-A2: UPRR Riverside & South along I-215	Plan and Profile
26	TJ1016	Subsection 2-Ontario to Murrieta/Temecula	S2-A2	S2-A2: UPRR Riverside & South along I-215	Plan and Profile
27	TJ1017	Subsection 2-Ontario to Murrieta/Temecula	S2-A2	S2-A2: UPRR Riverside & South along I-215	Plan and Profile
28	TJ1018	Subsection 2-Ontario to Murrieta/Temecula	S2-A2	S2-A2: UPRR Riverside & South along I-215	Plan and Profile
29	TJ1019	Subsection 2-Ontario to Murrieta/Temecula	S2-A3	S2-A3: I-10 Riverside & South along I-215	Plan and Profile
30	TJ1020	Subsection 2-Ontario to Murrieta/Temecula	S2-A3	S2-A3: I-10 Riverside & South along I-215	Plan and Profile
31	TJ1021	Subsection 2-Ontario to Murrieta/Temecula	S2-A3	S2-A3: I-10 Riverside & South along I-215	Plan and Profile
32	TJ1022	Subsection 2-Ontario to Murrieta/Temecula	S2-A3	S2-A3: I-10 Riverside & South along I-215	Plan and Profile
33	TJ1023	Subsection 2-Ontario to Murrieta/Temecula	S2-A4.2	S2-A4.2: I-15 Corridor - I-15 to Corona	Plan and Profile
34	TJ1023A	Subsection 2-Ontario to Murrieta/Temecula	S2-A4.1	S2-A4.1: I-15 Corridor-Miliken/Hamner to Corona	Plan and Profile
35	TJ1024	Subsection 2-Ontario to Murrieta/Temecula	S2-A4.2	S2-A4.2: I-15 Corridor - I-15 to Corona	Plan and Profile
36	TJ1024A	Subsection 2-Ontario to Murrieta/Temecula	S2-A4.1	S2-A4.1: I-15 Corridor-Miliken/Hamner to Corona	Plan and Profile
37	TJ1025	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4.2: I-15 Corridor - I-15 to Corona	Plan and Profile
38	TJ1025A	Subsection 2-Ontario to Murrieta/Temecula	S2-A4.1	S2-A4.1: I-15 Corridor-Miliken/Hamner to Corona	Plan and Profile
39	TJ1026	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4: I-15 Corridor	Plan and Profile
40	TJ1027	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4: I-15 Corridor	Plan and Profile
41	TJ1028	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4: I-15 Corridor	Plan and Profile
42	TJ1029	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4: I-15 Corridor	Plan and Profile
43	TJ1030	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4: I-15 Corridor	Plan and Profile
44	TJ1031	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4: I-15 Corridor	Plan and Profile
45	TJ1032	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4: I-15 Corridor	Plan and Profile
46	TJ1033	Subsection 2-Ontario to Murrieta/Temecula	S2-A4	S2-A4: I-15 Corridor	Plan and Profile

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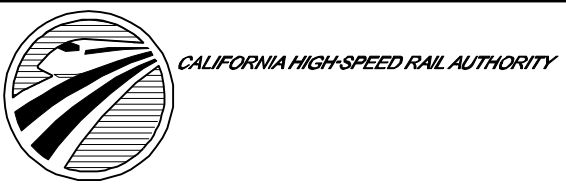
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CHECKED BY R. Simon
IN CHARGE M. Zdon
DATE 3-3-2011





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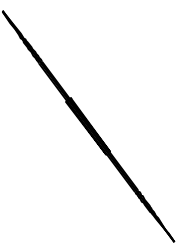
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 2-Ontario to Murrieta/Temecula
Index of Drawings 1

CONTRACT NO.
DRAWING NO. B1001
SCALE None
SHEET NO. 1

SYMBOLS

-----	ALTERNATE ALIGNMENT
-.-.-.-.-	CITY/COUNTY BOUNDARIES
-----	ALONG CENTERLINE
.....	EXISTING GRADE
-----	MATCHLINE
-.-.-.-.-	EXISTING TRANSIT
-.-.-.-.-	PROPOSED TRANSIT
-----	EXISTING PROJECT
-----	PROPOSED PROJECT



STATION



TUNNEL PORTAL

ABBREVIATIONS

APPROX AVE/AV	APPROXIMATE AVENUE	R RD ROW, R/W	RADIUS ROAD RIGHT OF WAY
BLVD BNSF	BOULEVARD BURLINGTON NORTHERN SANTA FE RAILWAY	S. SANBAG	SOUTH SAN BERNARDINO ASSOCIATION OF GOVERNMENTS
C,CL CLR C.S.	CENTER LINE CLEARANCE POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL	SB S.C.	SOUTHBOUND POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE
DIA	DIAMETER	SDIA SR ST S.T.	SAN DIEGO INTERNATIONAL AIRPORT STATE ROUTE STREET POINT OF CHANGE FROM SPIRAL TO TANGENT
E. EXIST Eq EB ELEV EQNAH EQNBK EU EXPY	EAST EXISTING ACTUAL SUPERELEVATION EASTBOUND ELEVATION EQUATION AHEAD EQUATION BACK UNBALANCED SUPERELEVATION EXPRESSWAY	STA.	STATION
FG FWY	FINISHED GRADE FREEWAY	TO T.S.	TURNOUT POINT OF CHANGE FROM TANGENT TO SPIRAL
HSR HWY	HIGH-SPEED RAIL HIGHWAY	TYP	TYPICAL
I	INTERSTATE	UPRR UTC UTIL	UNION PACIFIC RAILROAD UNIVERSITY TOWNE CENTER UTILITIES
L Lc Ls LA LAUS LN LOSSAN	LENGTH OF VERTICAL CURVE LENGTH OF HORIZONTAL CURVE LENGTH OF SPIRAL LOS ANGELES LOS ANGELES UNION STATION LANE LOS ANGELES SAN DIEGO RAIL CORRIDOR AUTHORITY	V	VELOCITY
MAX METROLINK	MAXIMUM SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY	W. WB WY	WEST WESTBOUND WAY
MIN MPH MT-1 MT-2	MINIMUM MILES PER HOUR CALTRAIN MAINLINE TRACK CALTRAIN MAINLINE TRACK	XING	CROSSING
N. NB	NORTH NORTHBOUND		
OCS OG	OVERHEAD CONTACT SYSTEM ORIGINAL GROUND		
PED PKWY P.O.B. P.O.E. PVC PVI PVT	PEDESTRIAN PARKWAY POINT OF BEGINNING POINT OF END POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY		

GENERAL NOTES

- ALL WORK, INCLUDING DESIGN WORK, SHALL CONFORM TO THE REQUIREMENTS OF THE HIGH SPEED RAIL AUTHORITY (FOR HIGH SPEED TRAIN FACILITIES) AND CALTRAIN DESIGN CRITERIA (FOR CALTRAIN FACILITIES).
- TOPOGRAPHIC BASE MAPPING DATED APRIL 2008 WAS PROVIDED BY THE PCJPB. THE HORIZONTAL DATUM IS NAD83 AND THE VERTICAL DATUM IS NAVD88.
- THE PROFILE CORRESPONDS TO THE ELEVATION AT THE TOP OF RAIL. THE LENGTHS OF LINES ARE BASED ON THE CENTER OF TRACK ALIGNMENT. UNLESS SEPARATE TRACK PROFILES ARE GIVEN, TRACKS PARALLEL TO THE DESIGNATED TRACK AT THE SAME TOP OF RAIL ELEVATIONS PROJECTED ON EITHER PERPENDICULAR OR RADIAL LINES FROM THE DESIGNATED TRACK CENTERLINES.
- VERTICAL CLEARANCE VALUES ARE CALCULATED FROM THE BOTTOM OF THE HST GUIDEWAY TO THE TOP OF THE FACILITY BELOW, ASSUMING AN HST STRUCTURE DEPTH OF TEN FEET.

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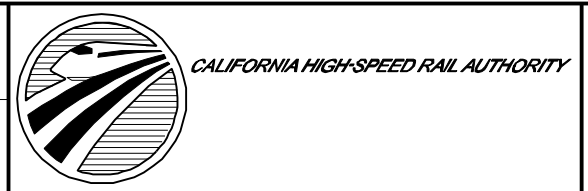
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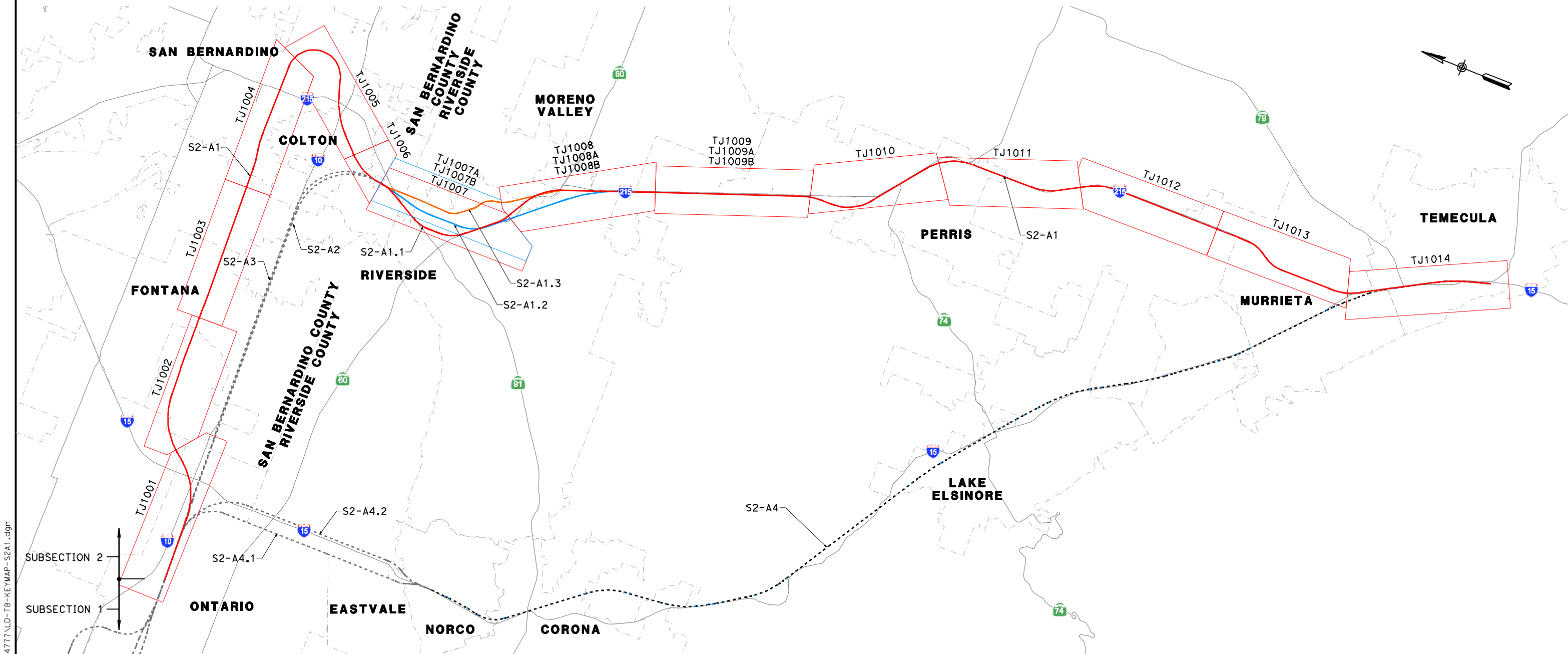


CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 2-Ontario to Murrieta/Temecula
Symbols, Abbreviations, & General Notes

CONTRACT NO.
DRAWING NO. B2001
SCALE None
SHEET NO. 2

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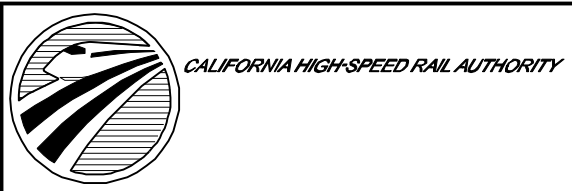
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DATE 3-3-2011



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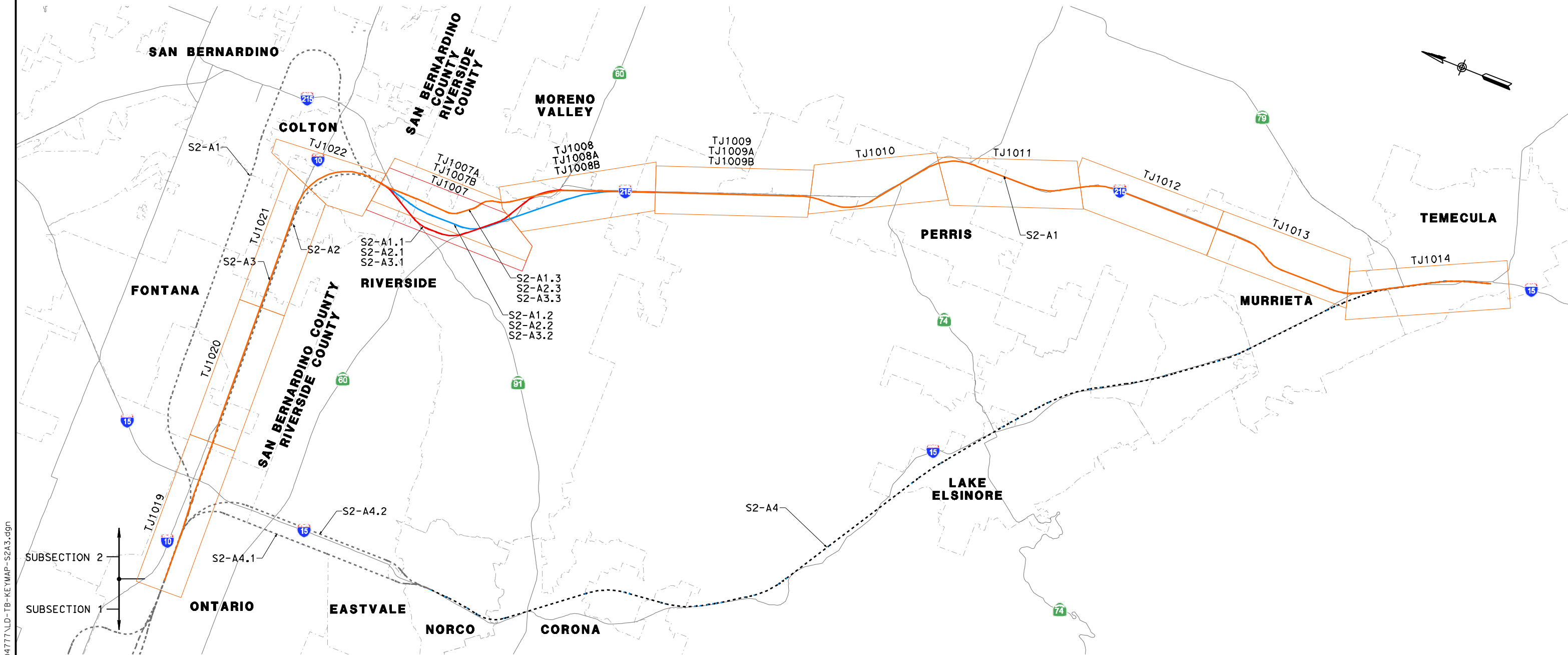


CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 2-Ontario to Murrieta/Temecula
Key Map 1

CONTRACT NO.
DRAWING NO. B3001
SCALE None
SHEET NO. 3

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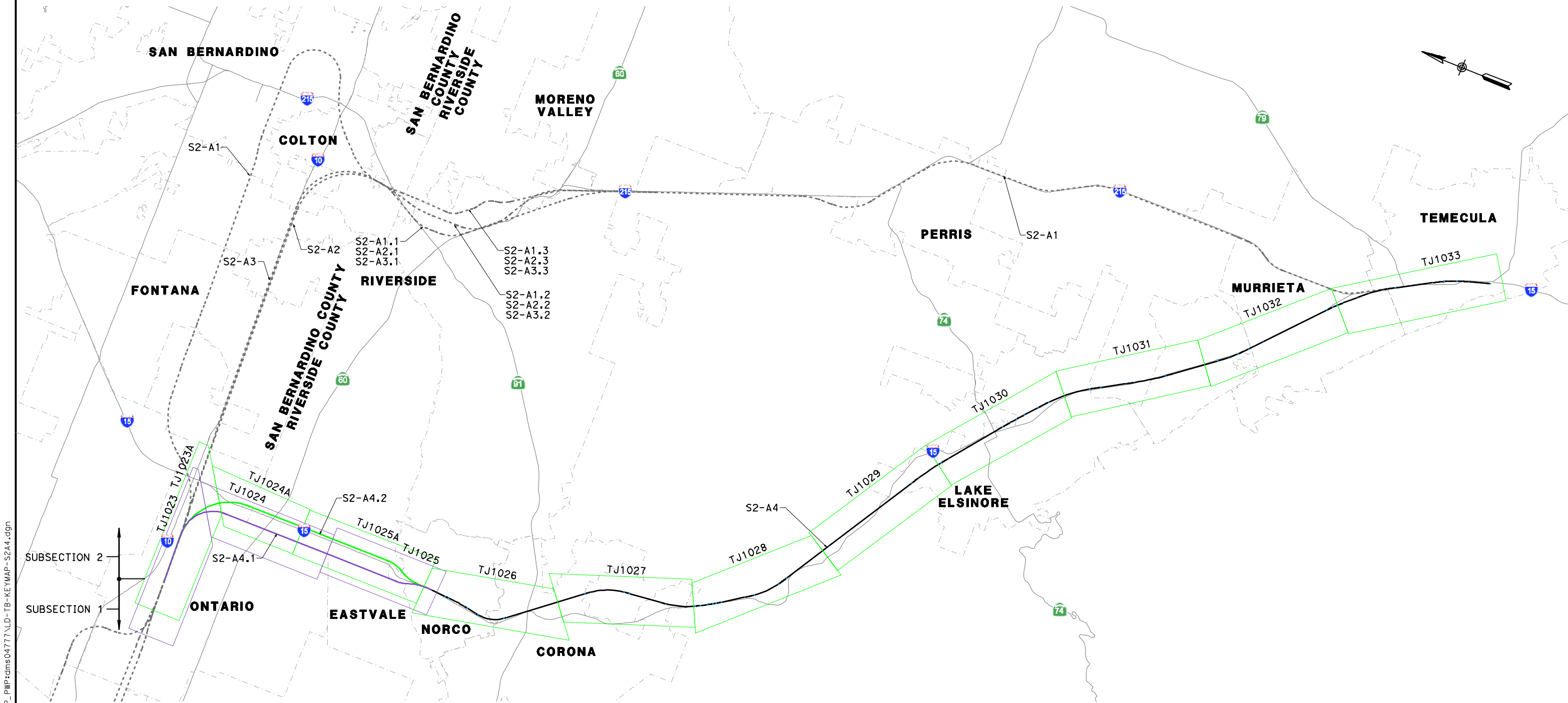


CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 2-Ontario to Murrieta/Temecula
Key Map 3

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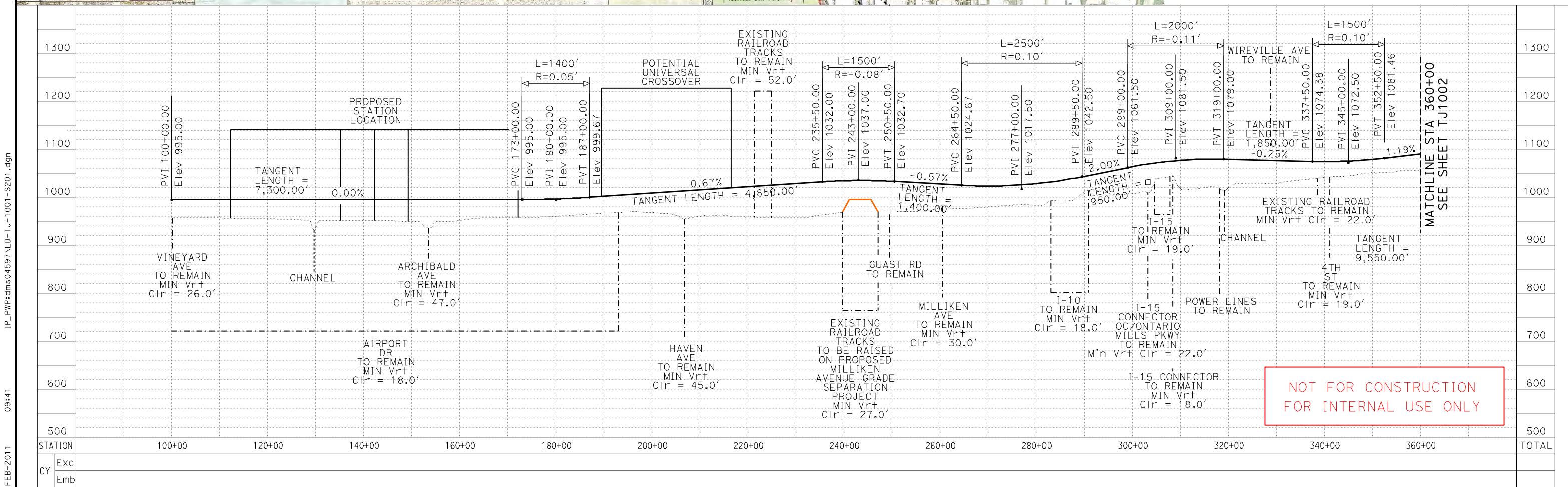
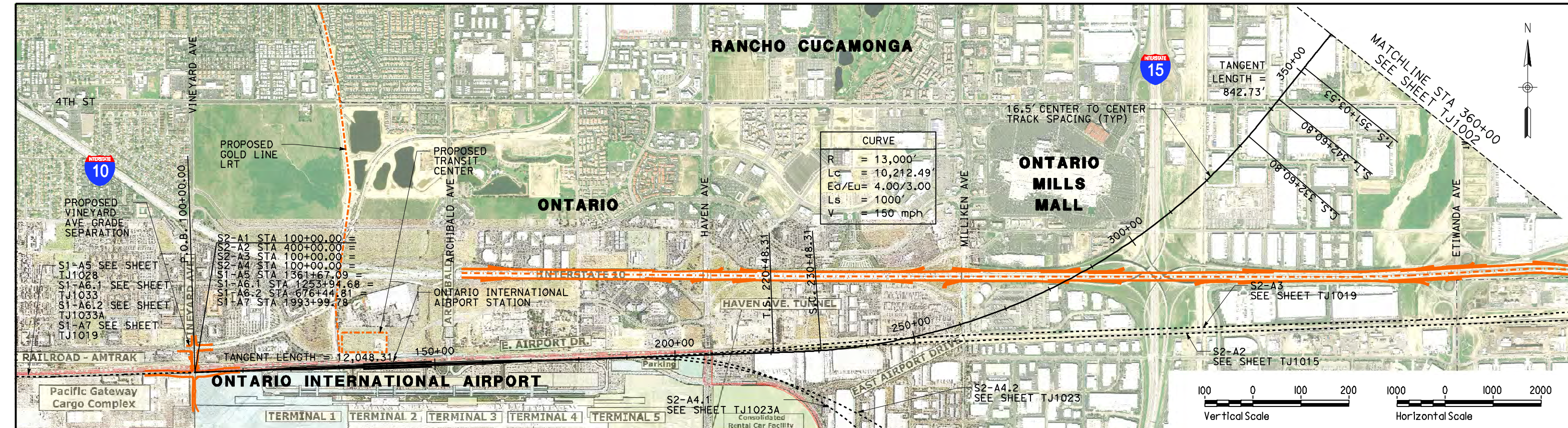
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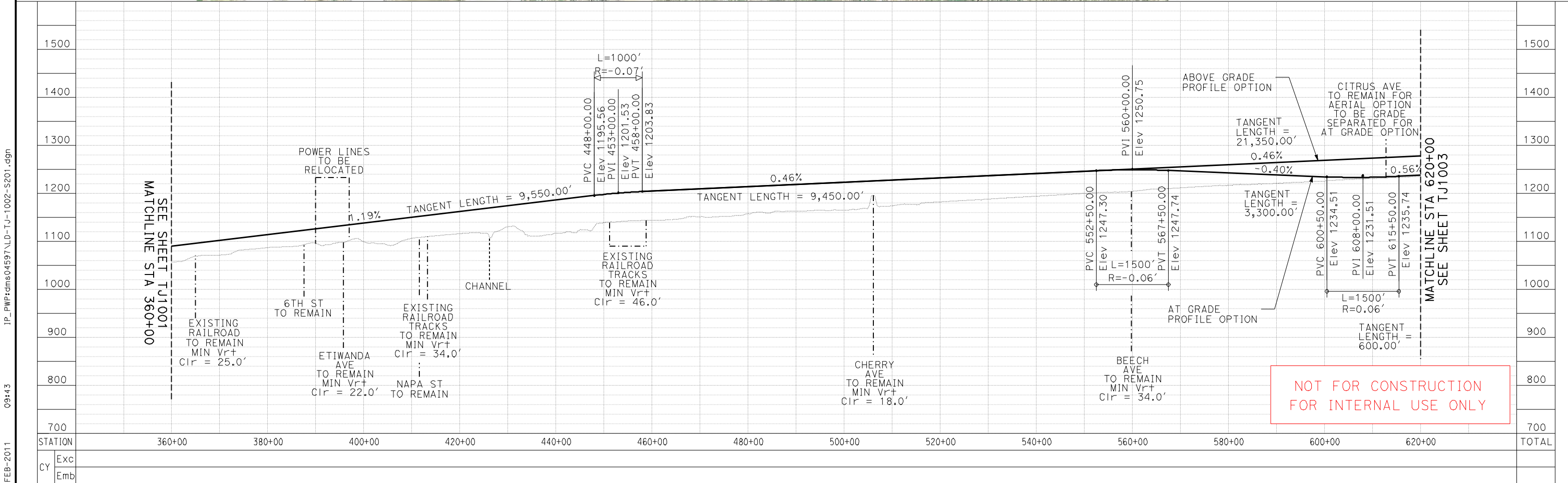
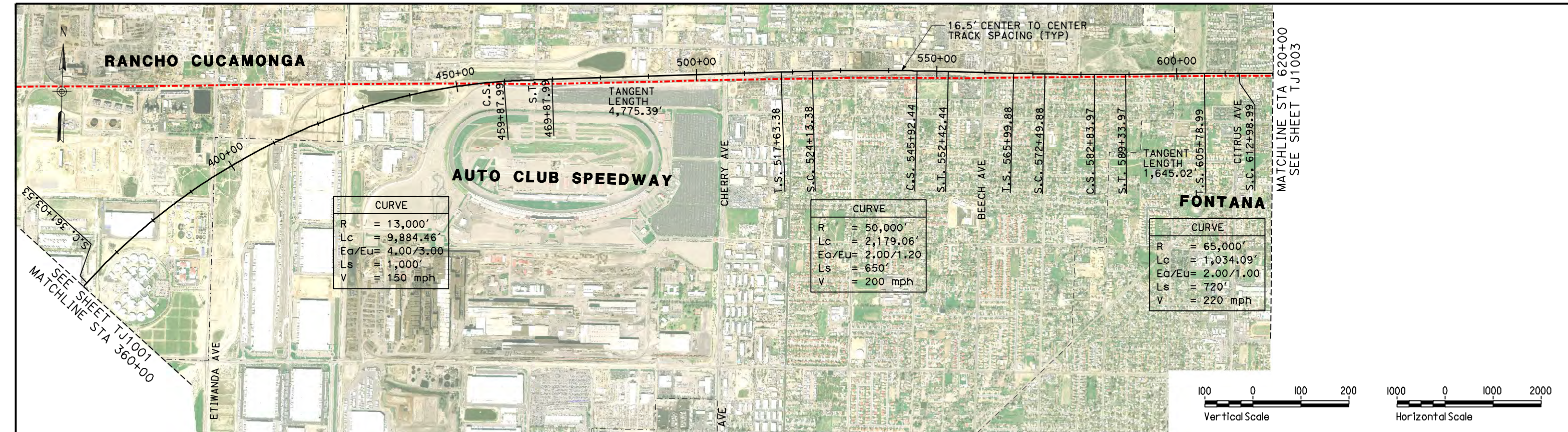
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LOS ANGELES TO SAN DIEGO SECTION

Subsection 2-Ontario to Murrieta/Temecula
Key Map 4

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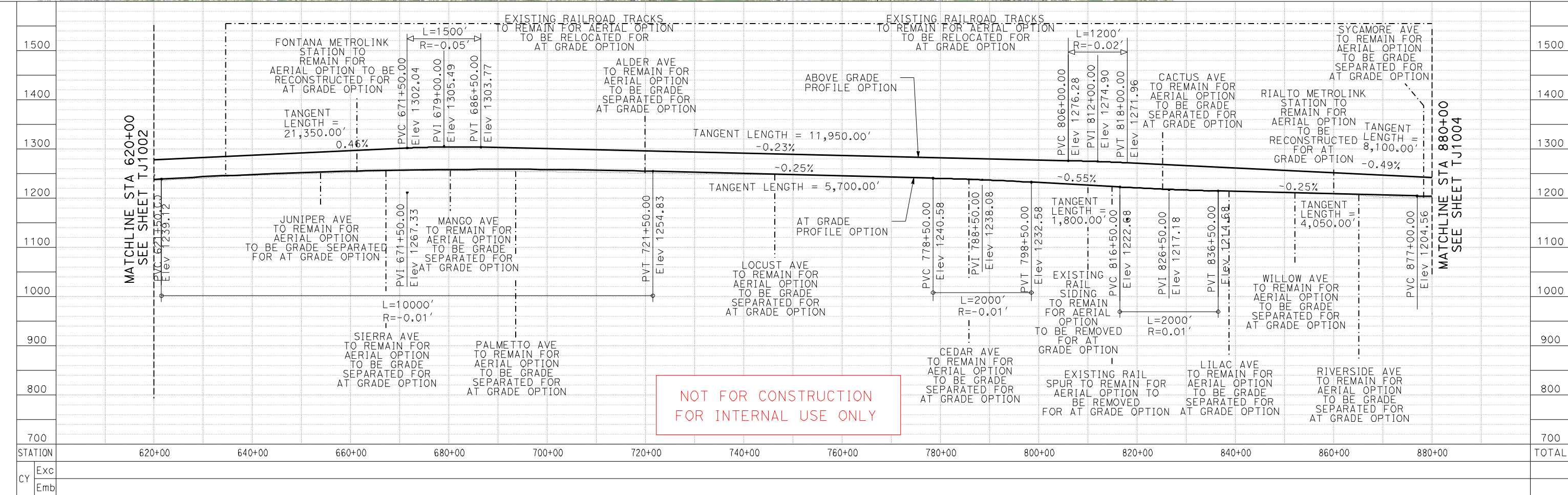
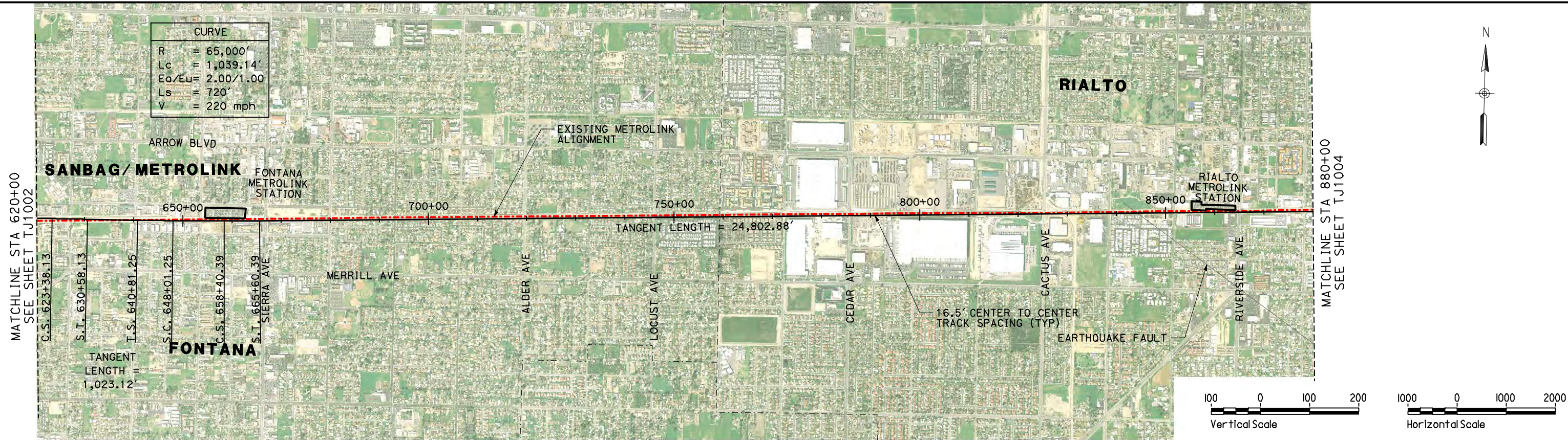


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3-3-2011

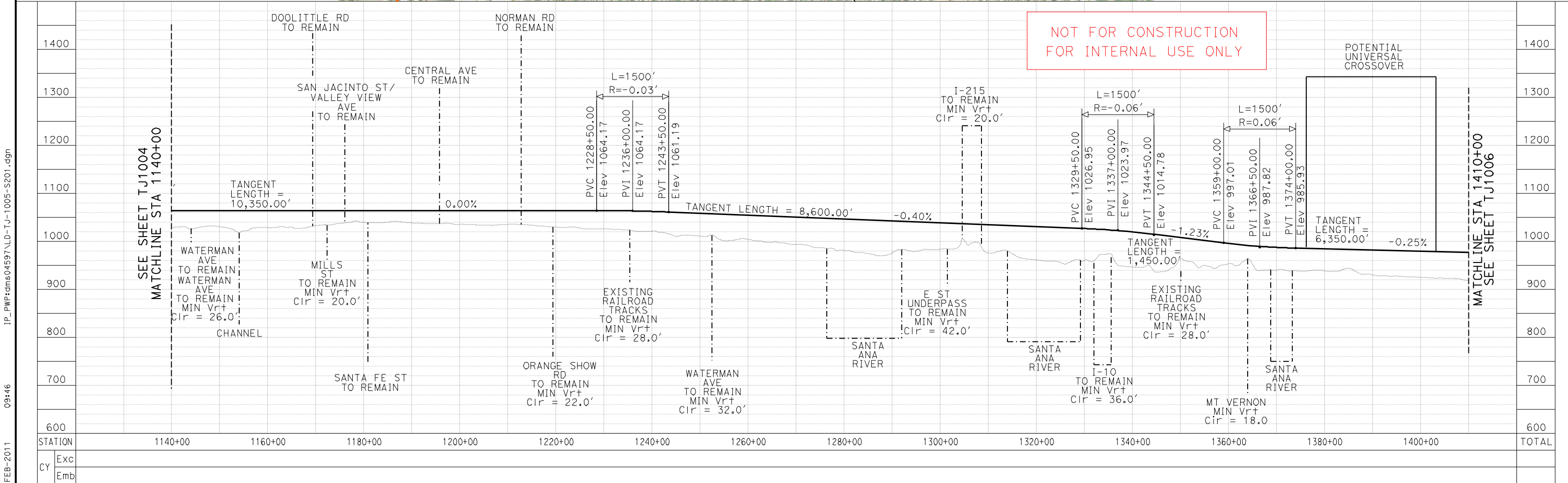
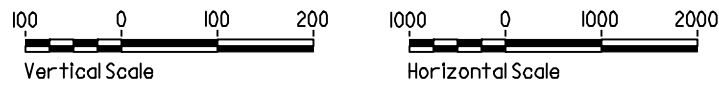
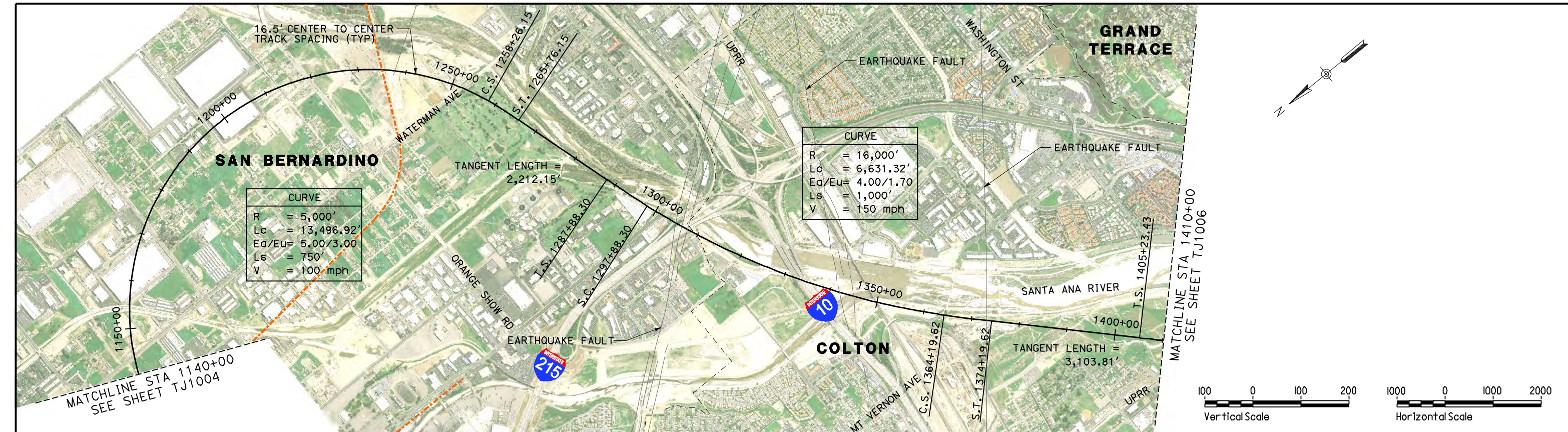
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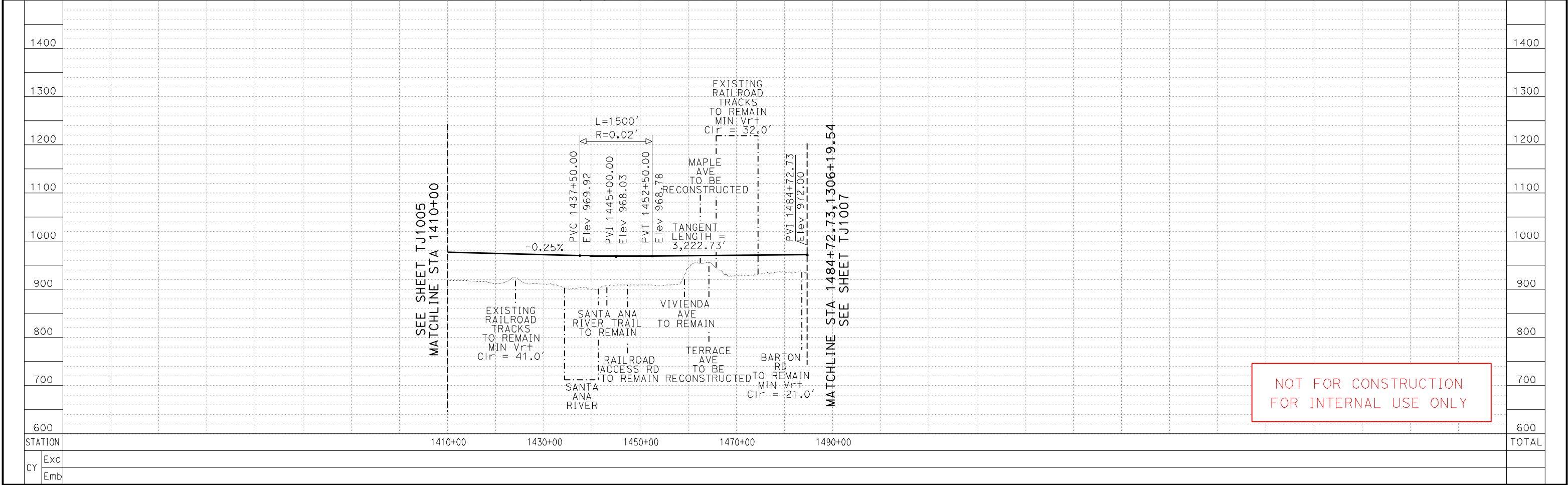
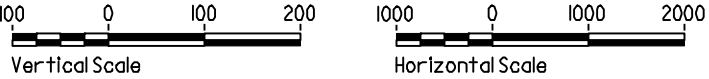
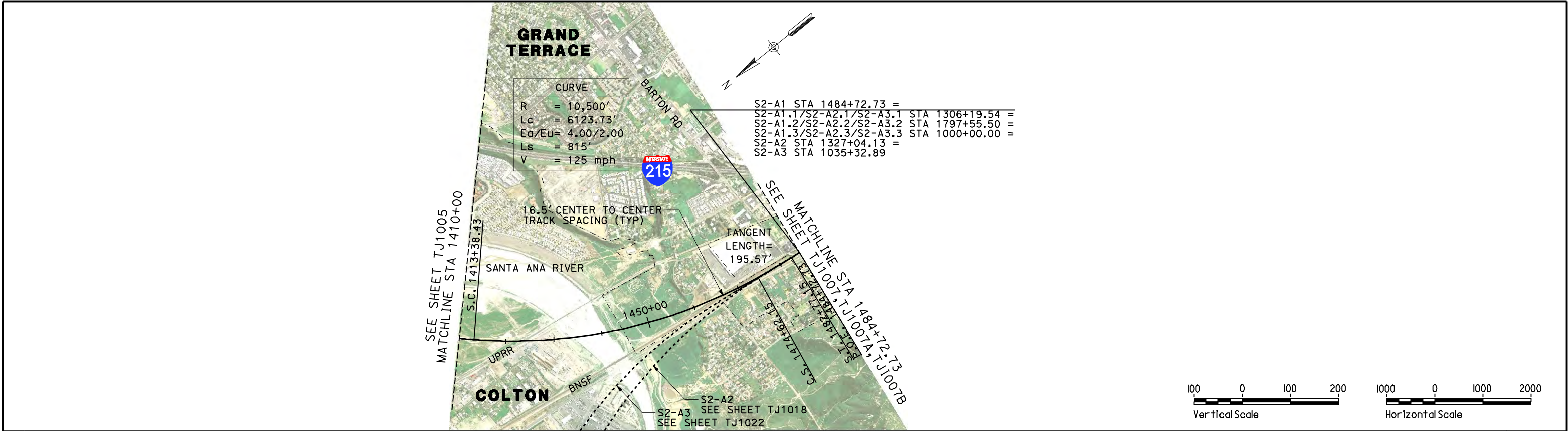
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**
Subsection 2-Ontario to Murrieta/Temecula
S2-A1: Metrolink Corridor & South along I-215
Plan and Profile

CONTRACT NO.
DRAWING NO.
TJ1003
SCALE
As Shown
SHEET NO.
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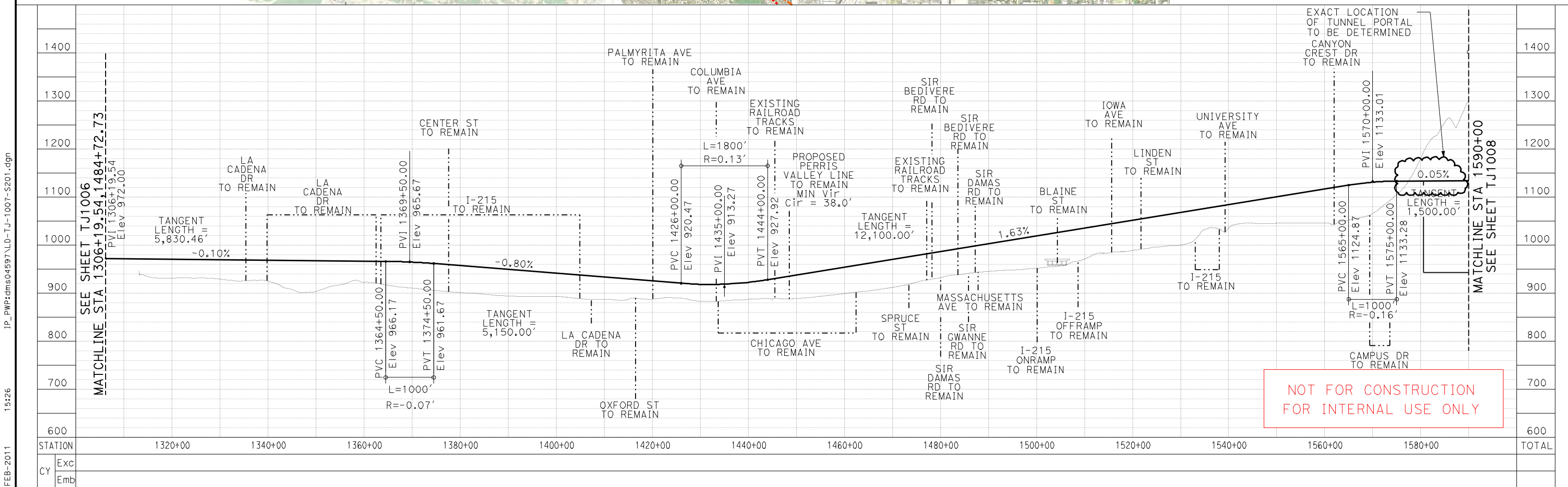
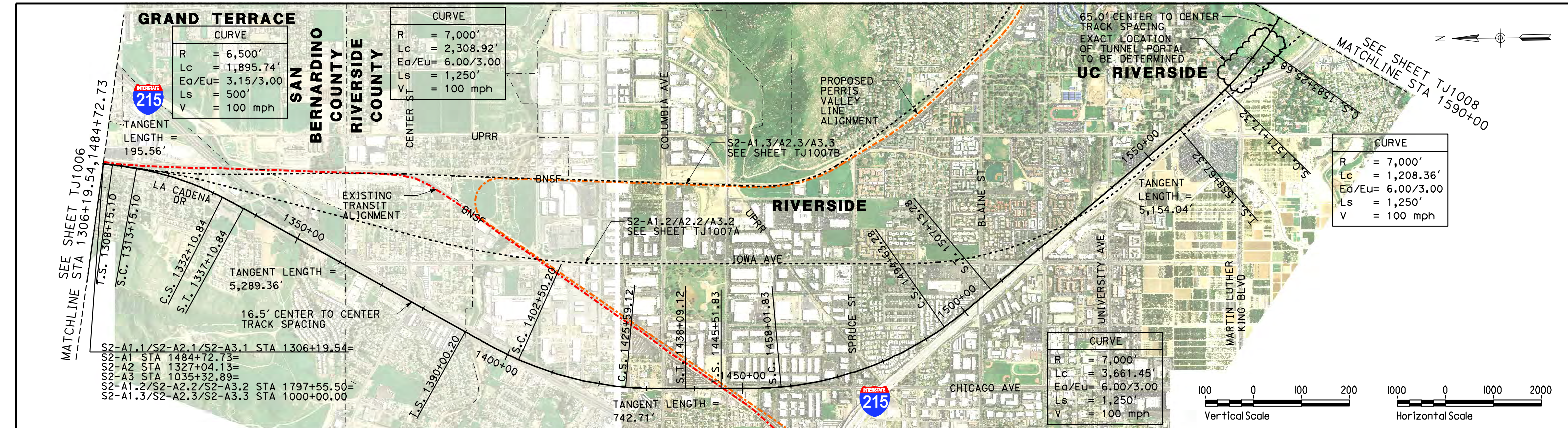


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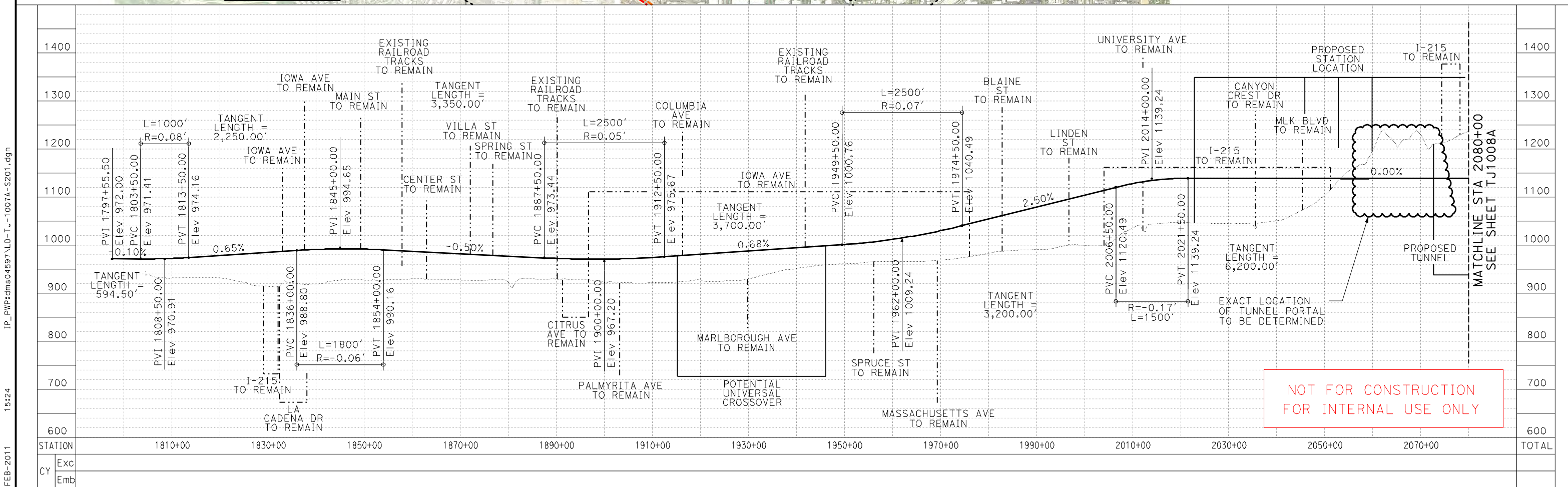
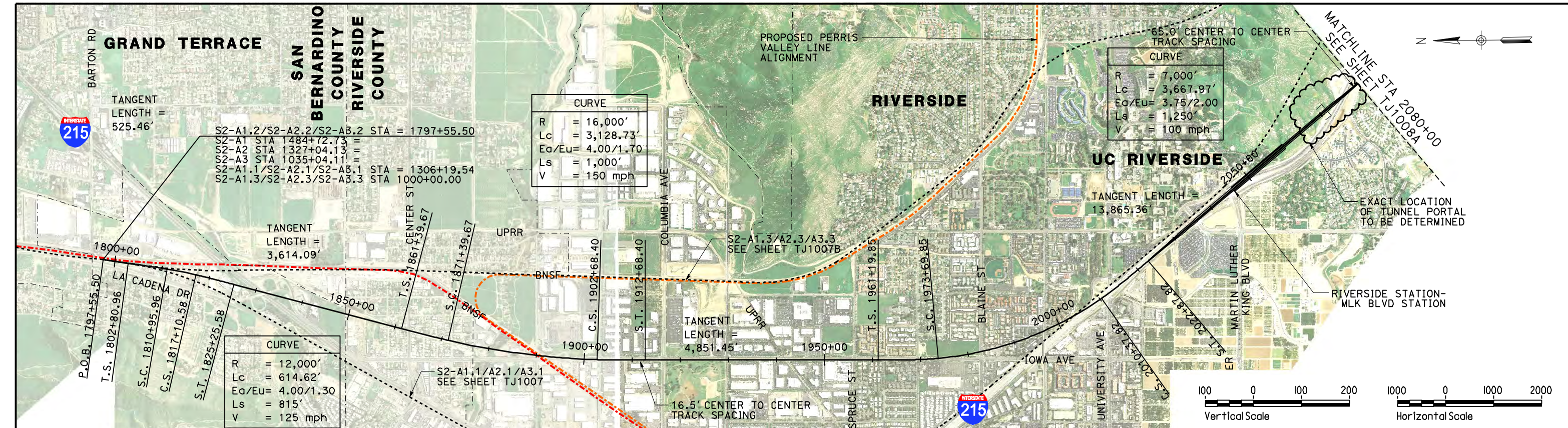
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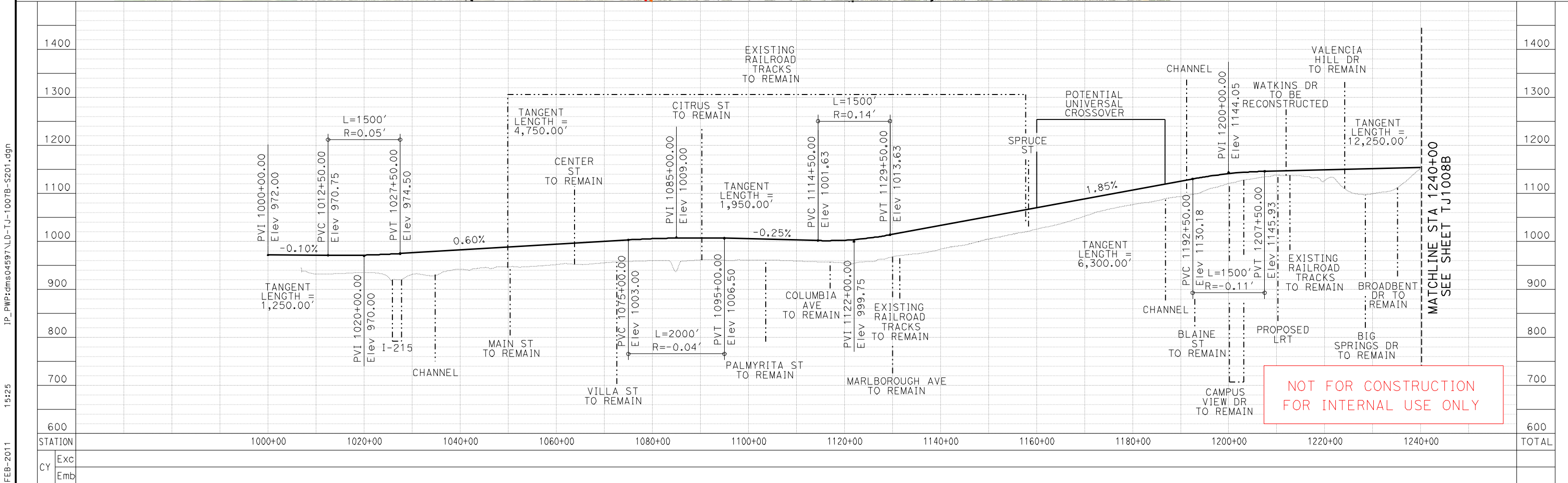
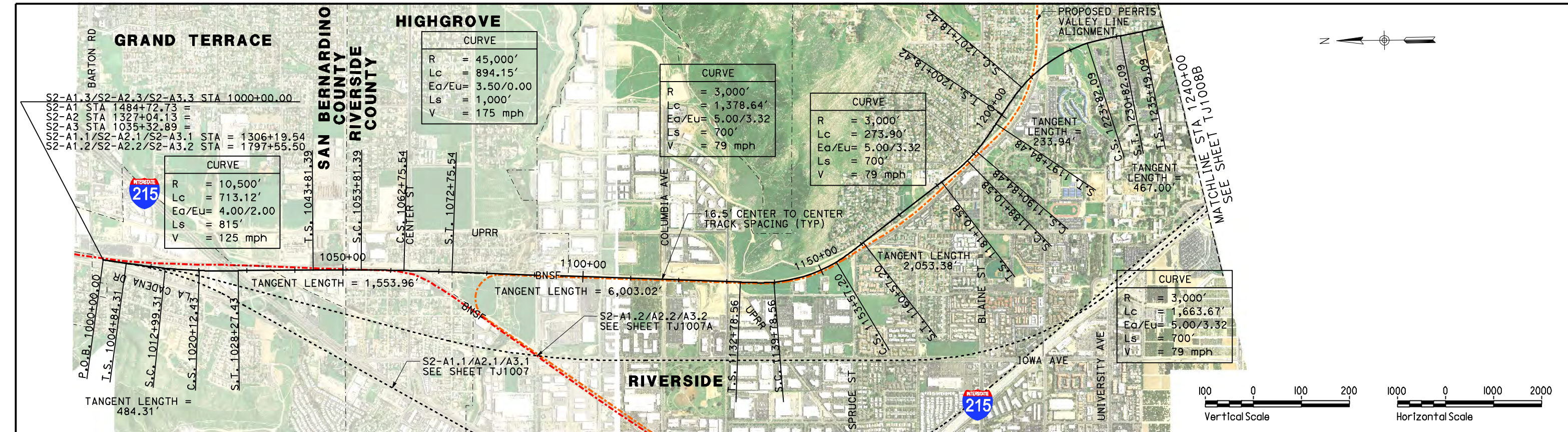
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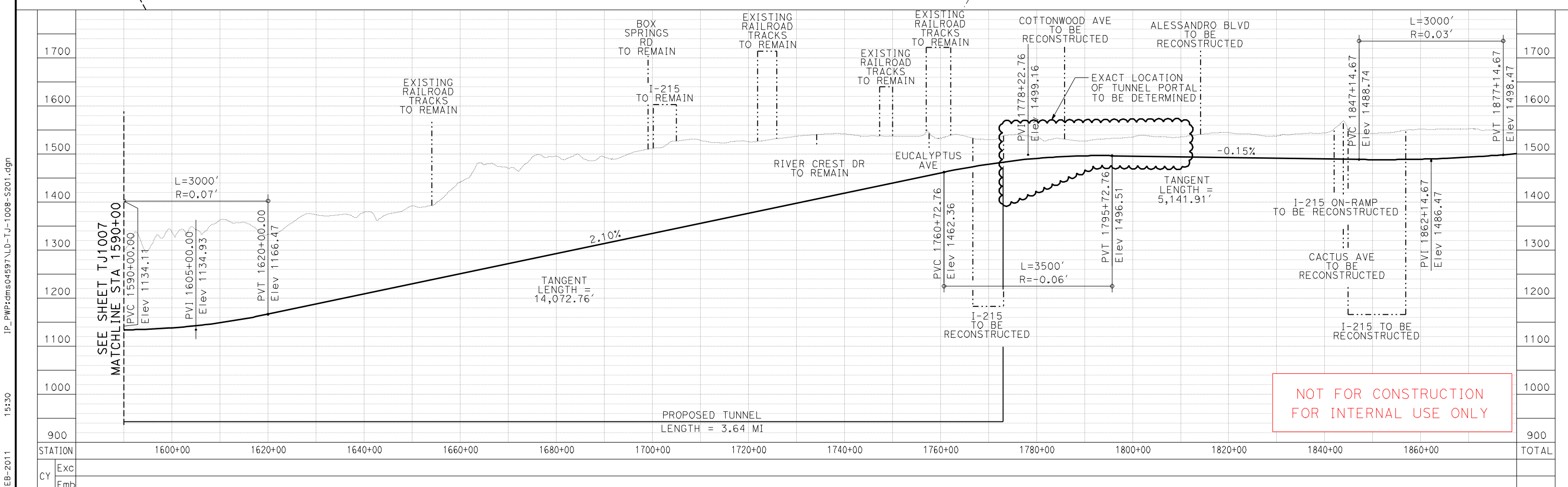
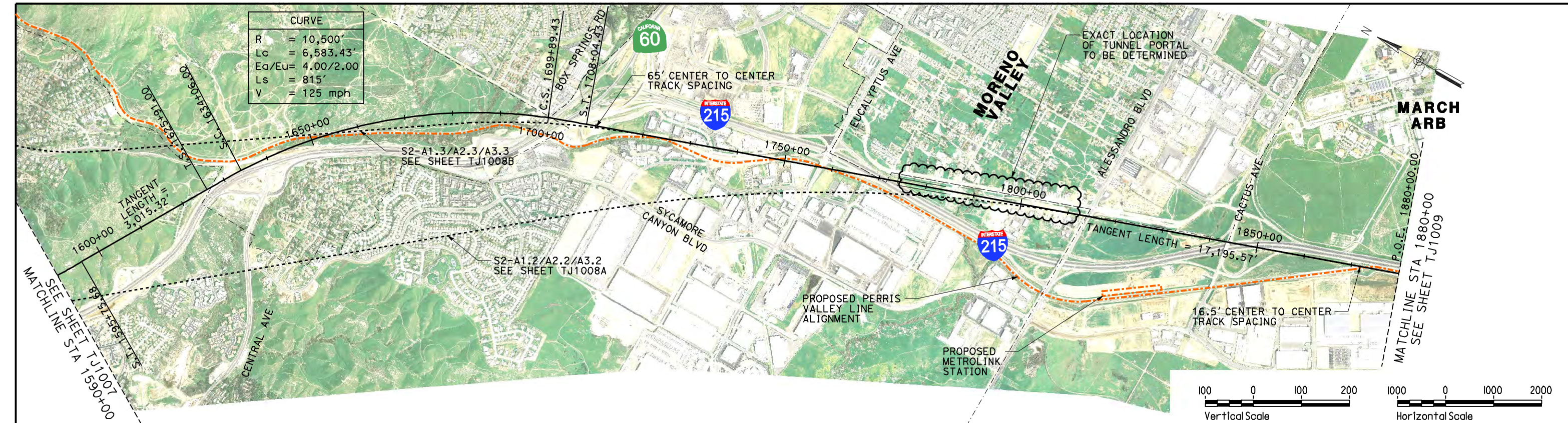
<div>DESIGNED BY A. Troung DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011</div>					<div>HNTB 401 B Street Suite 302 San Diego, CA 92101</div> <div>CH2MHILL</div>		<div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>		<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 2-Ontario to Murrieta/Temecula S2-A1.1/A2.1/A3.1: Riverside via March ARB Plan and Profile</div>		<div>CONTRACT NO. DRAWING NO. TJ1007 SCALE As Shown SHEET NO. 13</div>	
REV	DATE	BY	CHK	APP	DESCRIPTION							



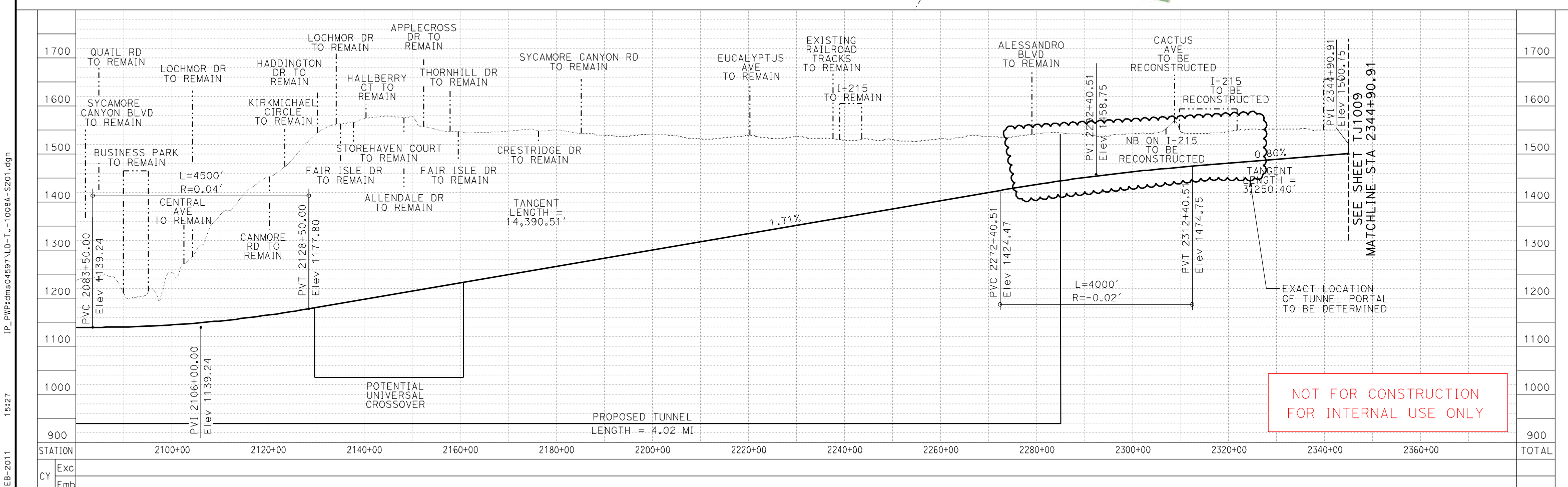
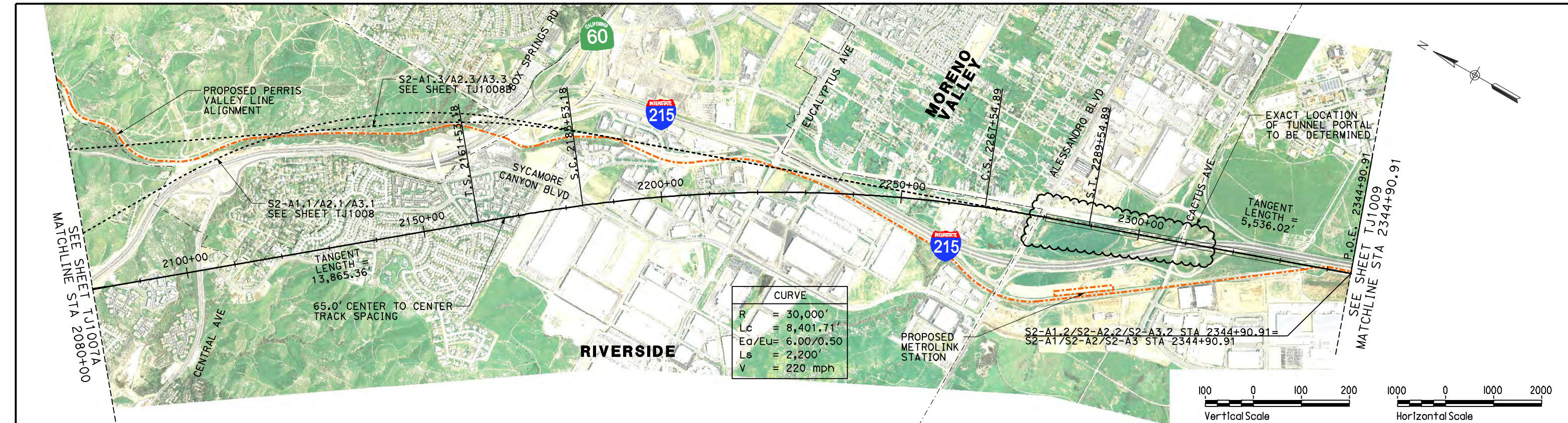
DESIGNED BY A. Troung						401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION		CONTRACT NO.	
DRAWN BY C. Swanson											DRAWING NO. TJ1007A	
CHECKED BY R. Simon											SCALE As Shown	
IN CHARGE M. Zdon											SHEET NO. 14	
DATE 3-3-2011									Subsection 2-Ontario to Murrieta/Temecula S2-A1.2/A2.2/A3.2: Riverside via Iowa Ave Plan and Profile			
REV	DATE	BY	CHK	APP	DESCRIPTION							



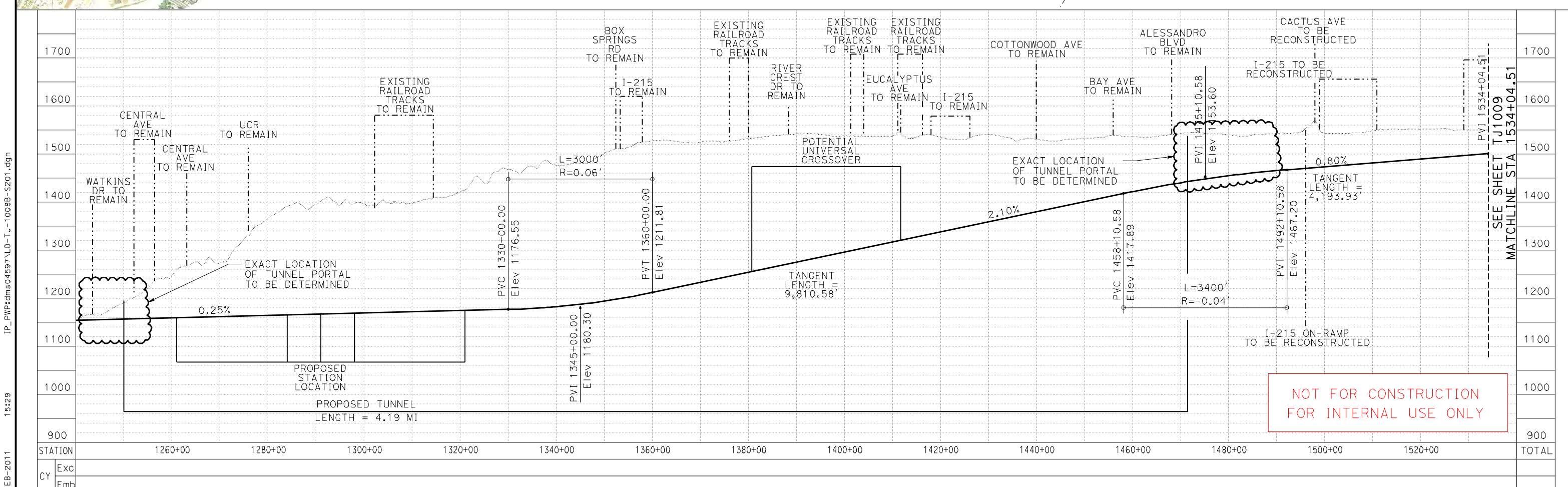
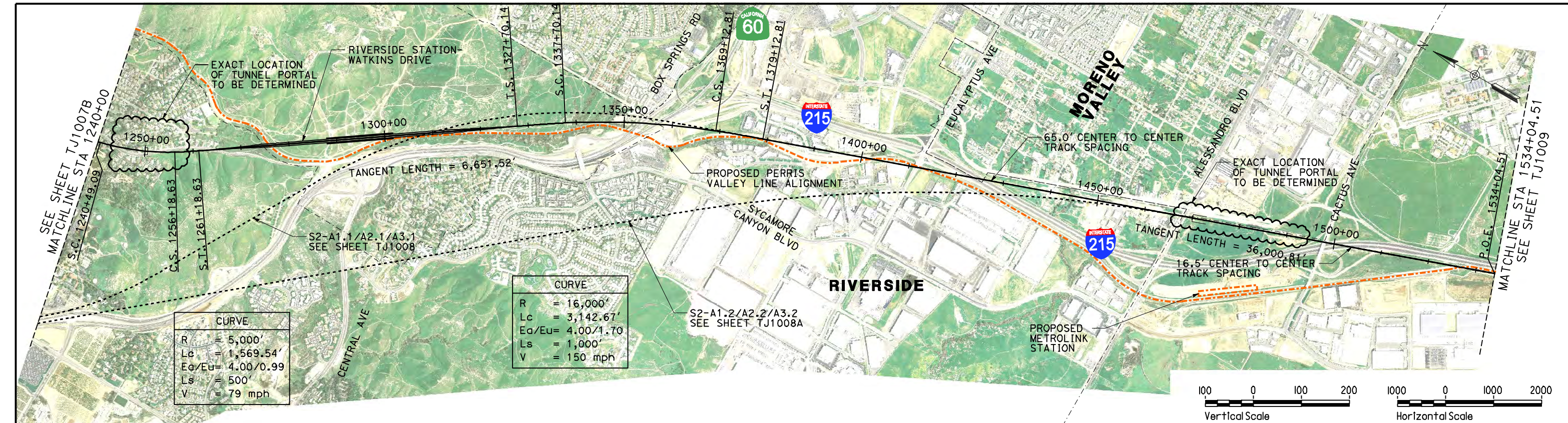
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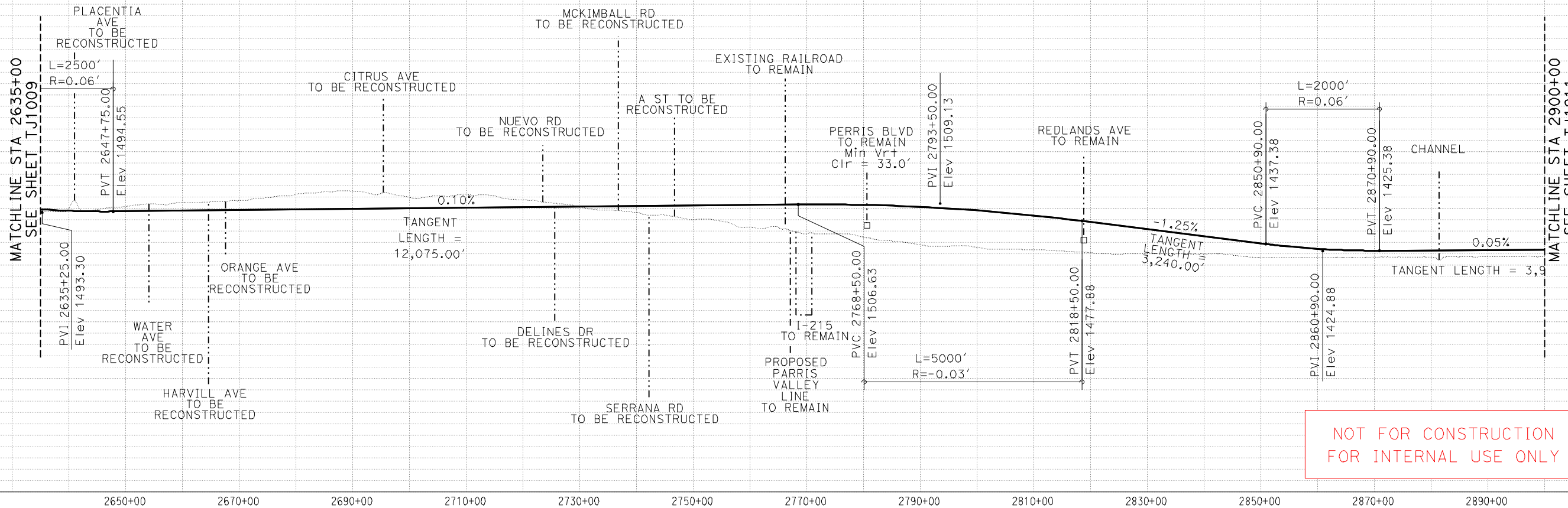
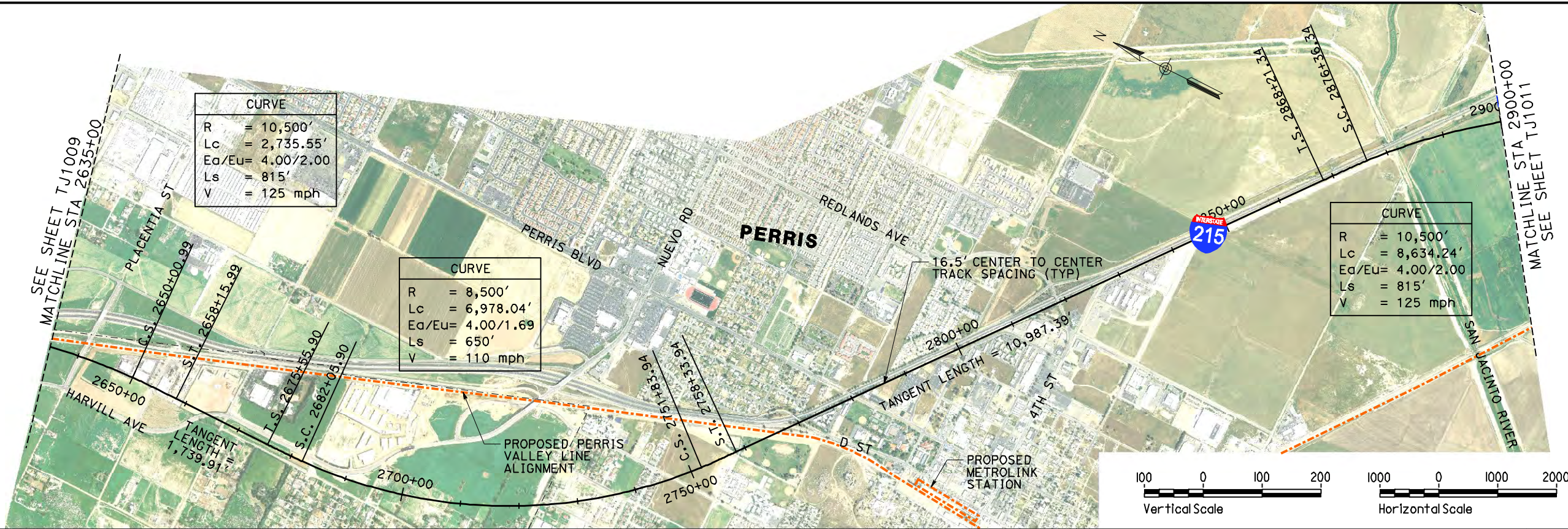
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<div>16-FEB-2011 15:27 IP_PWP\dms04597\LD-TJ-1008A-S201.dgn</div>					<div>DESIGNED BY A. Troung DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011</div>		<div>HNTB 401 B Street Suite 302 San Diego, CA 92101</div> <div>CH2MHILL</div>		<div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>		<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 2-Ontario to Murrieta/Temecula S2-A1.2/A2.2/A3.2: Riverside via Iowa Ave Plan and Profile</div>		<div>CONTRACT NO. DRAWING NO. TJ1008A SCALE As Shown SHEET NO. 17</div>	
REV	DATE	BY	CHK	APP	DESCRIPTION									



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REV	DATE	BY	CHK	APP	DESCRIPTION																																																					
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STATION		2650+00	2670+00	2690+00	2710+00	2730+00	2750+00	2770+00	2790+00	2810+00	2830+00	2850+00	2870+00	2890+00	TOTAL
CY	Exc														
	Emb														


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. Trough
DRAWN BY C. Swanson
CHECKED BY R. Simon
IN CHARGE M. Zdon
DATE 3-3-2011



401 B Street
Suite 302
San Diego, CA 92101



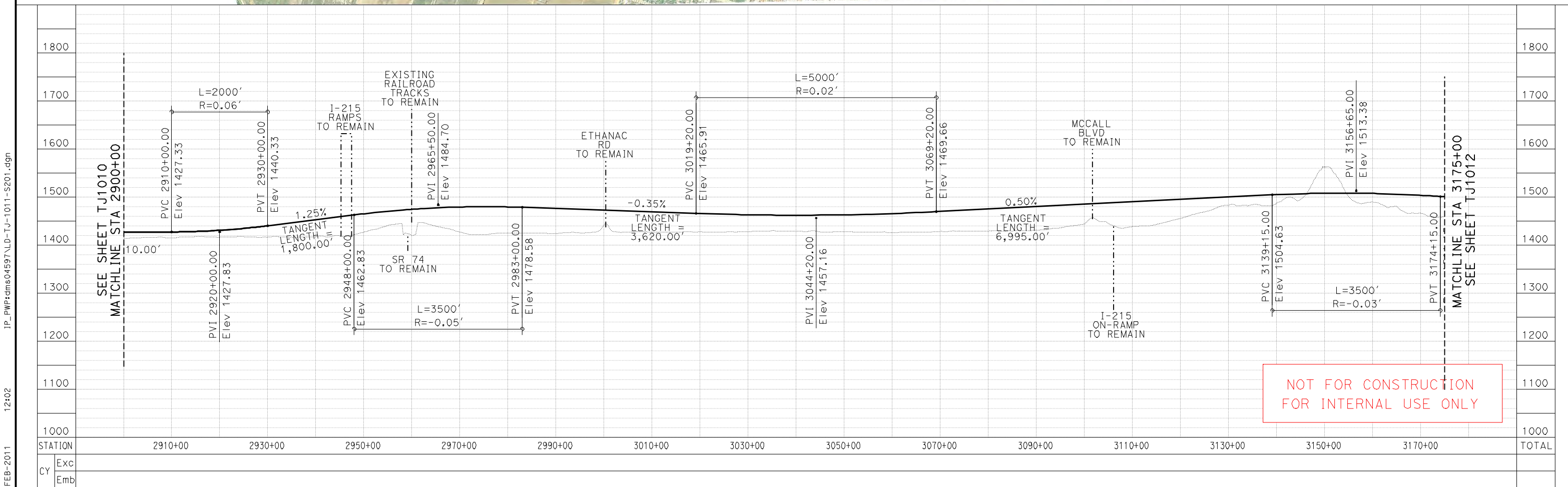
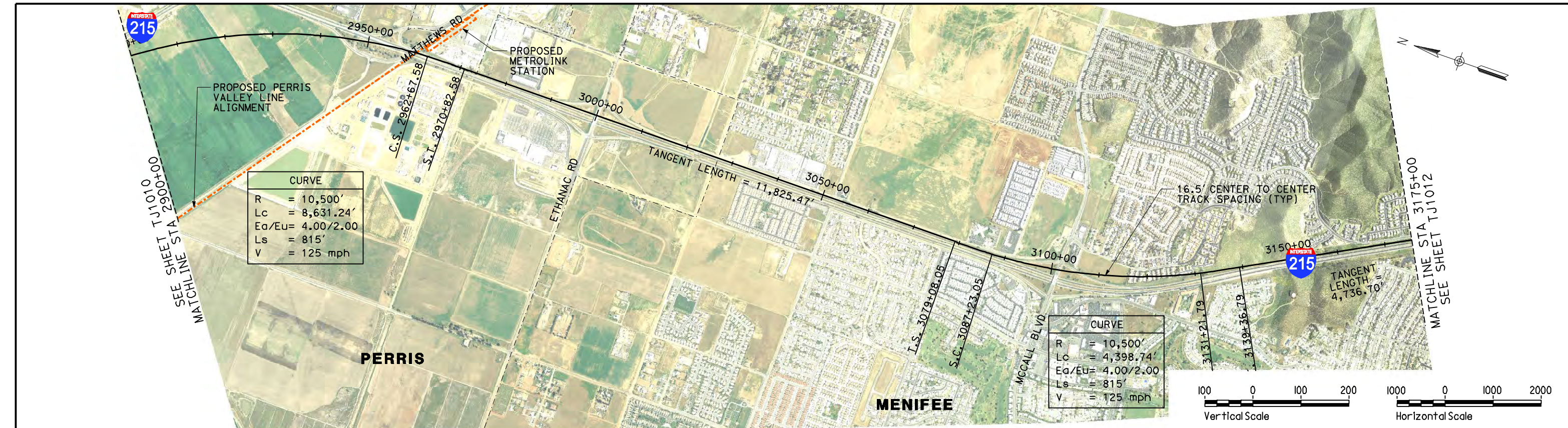


CALIFORNIA HIGH-SPEED RAIL AUTHORITY

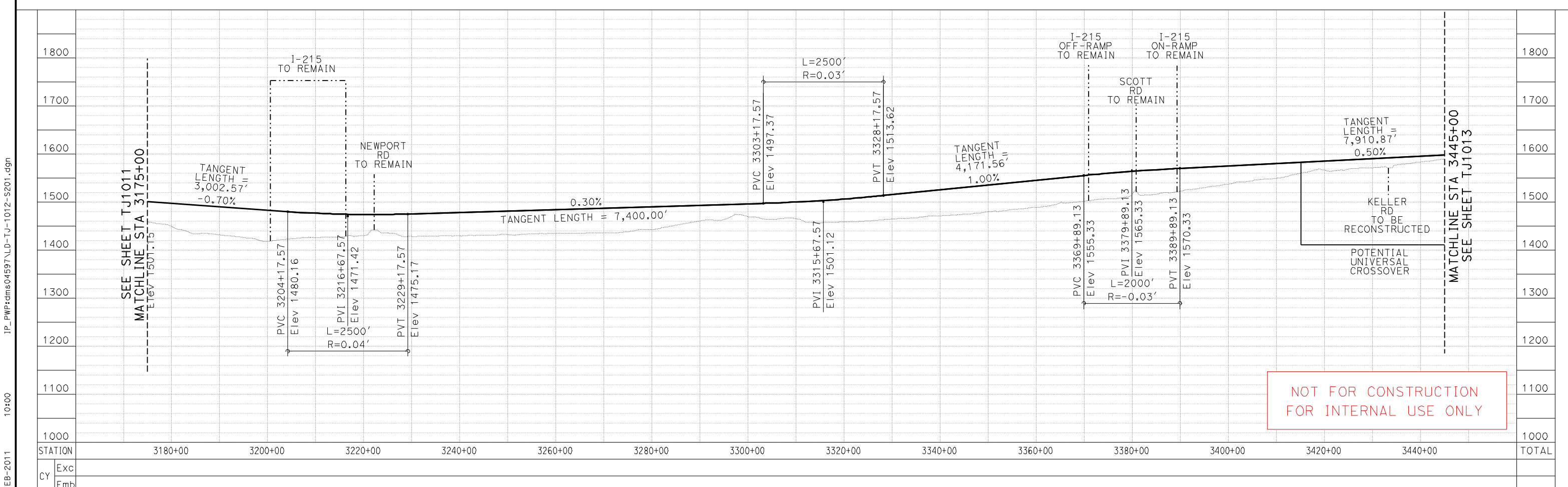
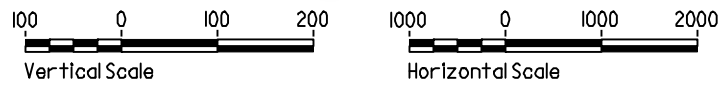
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 2-Ontario to Murrieta/Temecula
S2-A1/A2/A3: I-215
Plan and Profile

CONTRACT NO.
DRAWING NO. TJ1010
SCALE As Shown
SHEET NO. 20

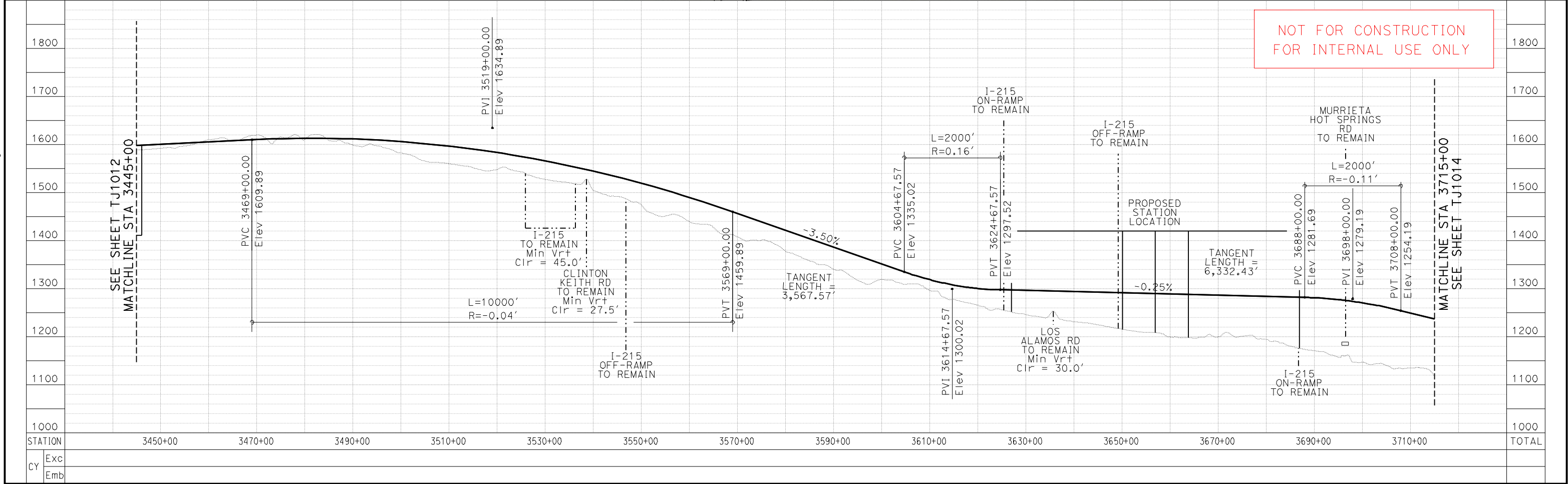
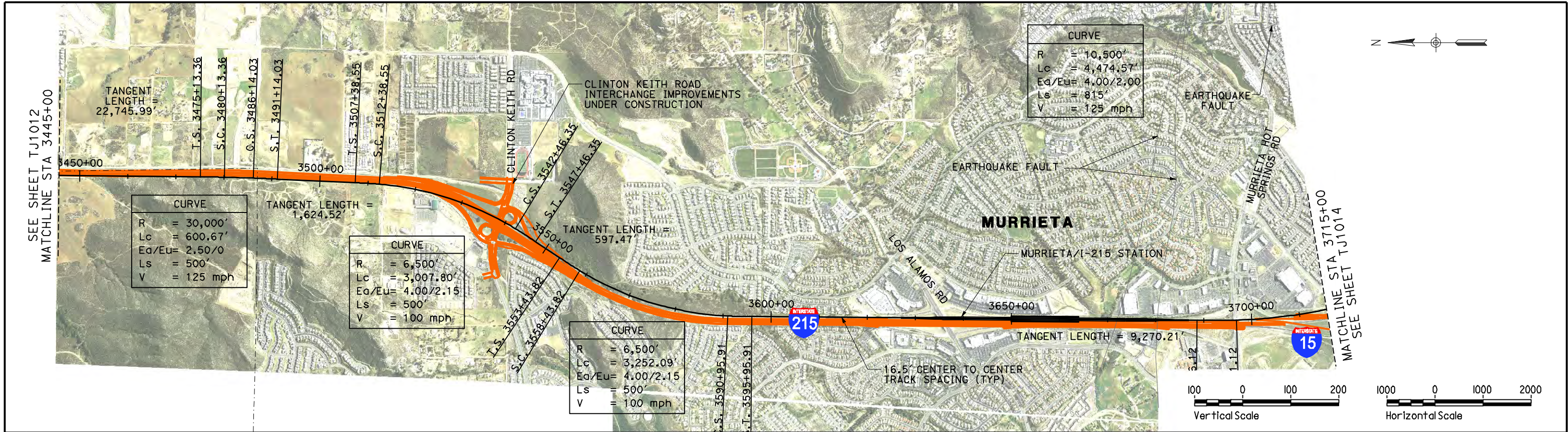


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						DRAWN BY C. Swanson				DRAWING NO. TJ1011
						CHECKED BY R. Simon				SCALE As Shown
						IN CHARGE M. Zdon				SHEET NO. 21
	REV					DATE				
	BY					CHK				
APP					DESCRIPTION					
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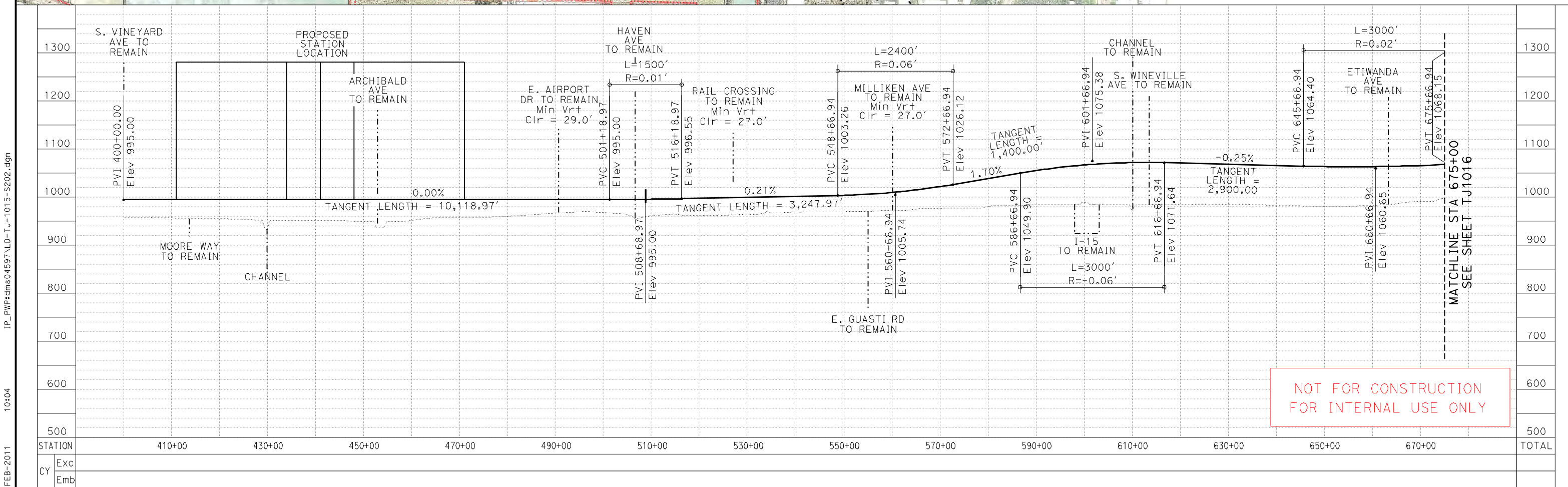
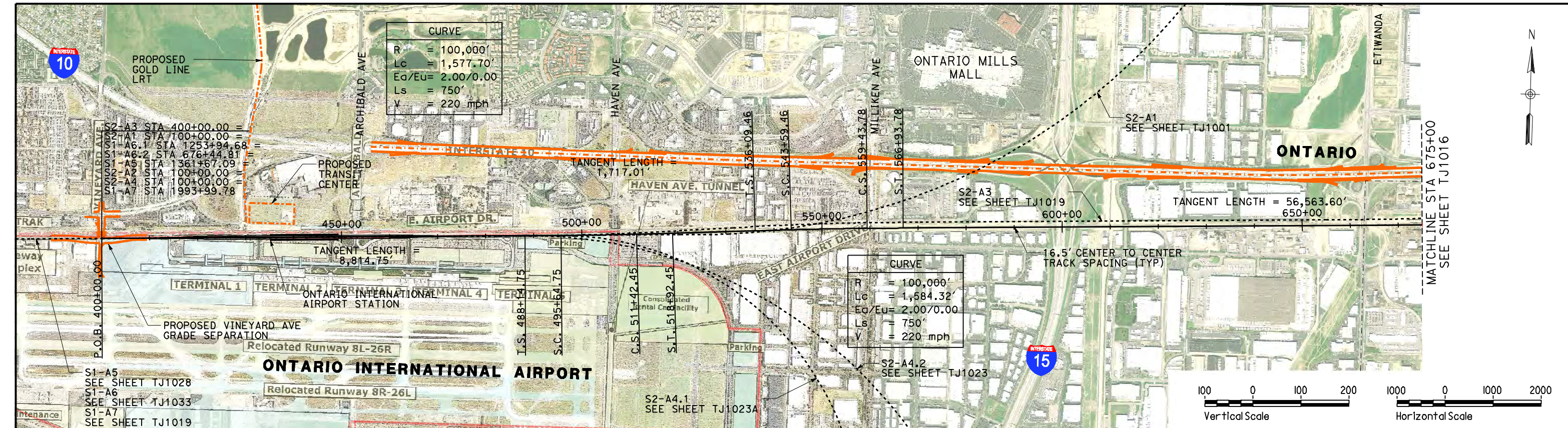


NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

15-FEB-2011 10:00 IP_PWP:dms04597\LD-TJ-1012-S201.dgn						DESIGNED BY A. Troung	<div><div>HNTB</div><div>401 B Street Suite 302 San Diego, CA 92101</div></div> <div><div>CH2MHILL</div></div>	<div></div> <div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>	<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT</div> <div>LOS ANGELES TO SAN DIEGO SECTION</div>			CONTRACT NO.
						CHECKED BY R. Simon			DRAWING NO. TJ1012			
						IN CHARGE M. Zdon			SCALE As Shown			
						DATE 3-3-2011			SHEET NO. 22			
	REV	DATE	BY	CHK	APP	DESCRIPTION						



DESIGNED BY A. Trowng						HNTB 401 B Street Suite 302 San Diego, CA 92101						CALIFORNIA HIGH-SPEED RAIL AUTHORITY						CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION						CONTRACT NO.					
DRAWN BY C. Swanson						CH2MHILL						Subsection 2-Ontario to Murrieta/Temecula S2-A1/A2/A3: I-215 Plan and Profile						DRAWING NO. TJ1013						SCALE As Shown					
CHECKED BY R. Simon						IN CHARGE M. Zdon						SHEET NO. 23																	
DATE 3-3-2011																													
REV	DATE	BY	CHK	APP	DESCRIPTION																								



C. SWANSON							DESIGNED BY A. Trough	<div><div>HNTB</div><div>401 B Street Suite 302 San Diego, CA 92101</div></div> <div><div>CH2MHILL</div></div>	<div><div></div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div>	<div><div>CALIFORNIA HIGH-SPEED TRAIN PROJECT</div><div>LOS ANGELES TO SAN DIEGO SECTION</div></div> <div><div>Subsection 2-Ontario to Murrieta/Temecula</div><div>S2-A2: UPRR Riverside & South along I-215</div><div>Plan and Profile</div></div>	CONTRACT NO.
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							TJ1015				
							SCALE				
							As Shown				
	REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 3-3-2011	SHEET NO. 25			

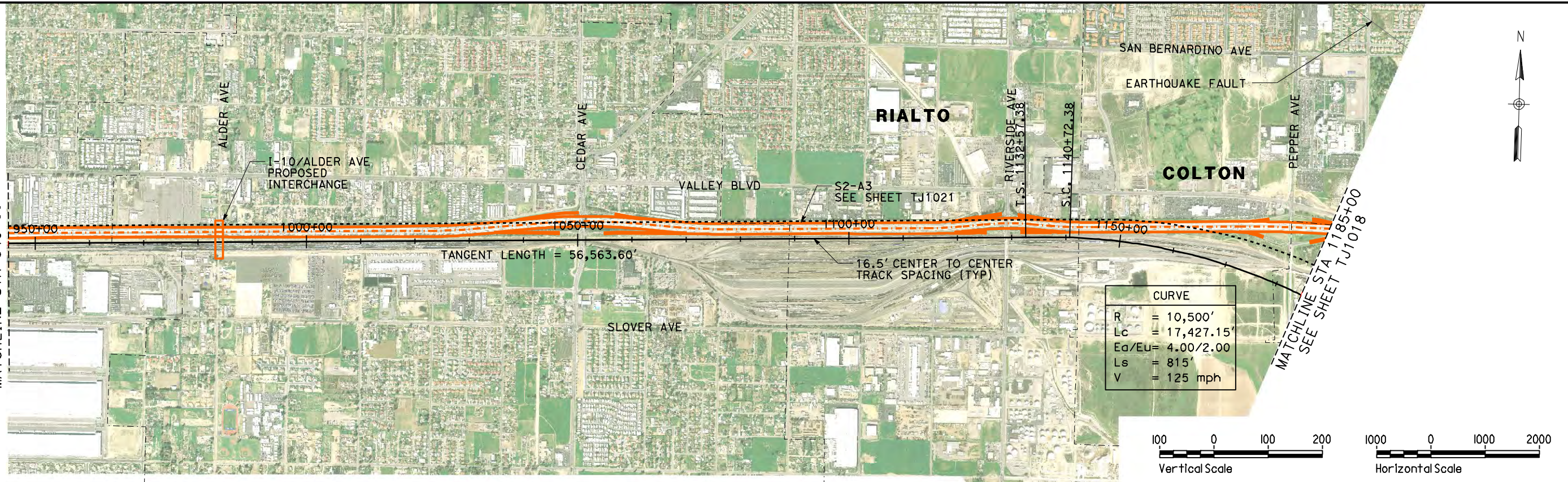
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10106

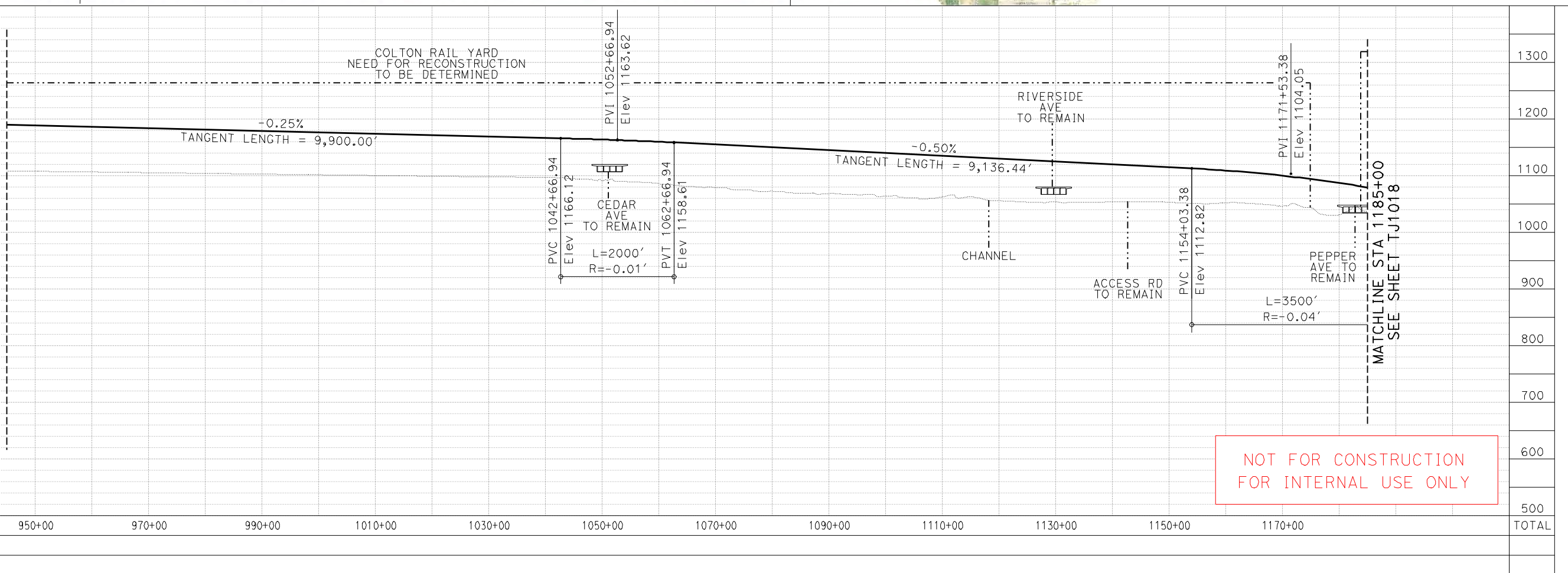
15-FEB-2011

caswanson

SEE SHEET TJ1016
MATCHLINE STA 945+00



SEE SHEET TJ1016
MATCHLINE STA 945+00



STATION	Exc	Emb
950+00		
970+00		
990+00		
1010+00		
1030+00		
1050+00		
1070+00		
1090+00		
1110+00		
1130+00		
1150+00		
1170+00		
TOTAL		

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. Trough
DRAWN BY C. Swanson
CHECKED BY R. Simon
IN CHARGE M. Zdon
DATE 3-3-2011

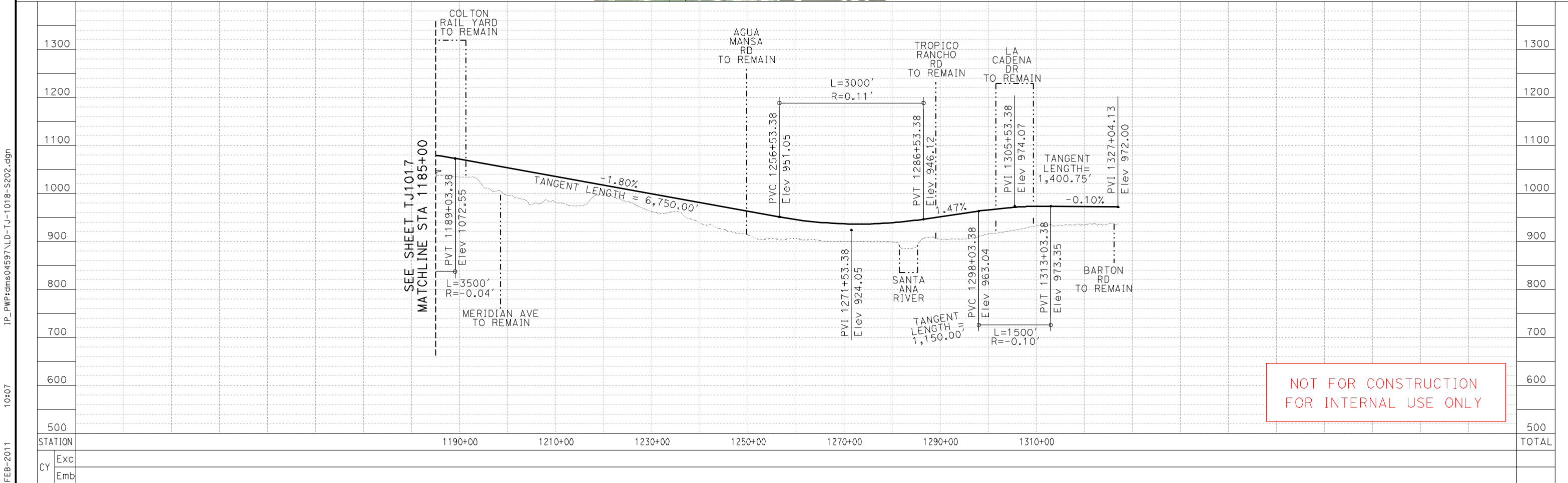
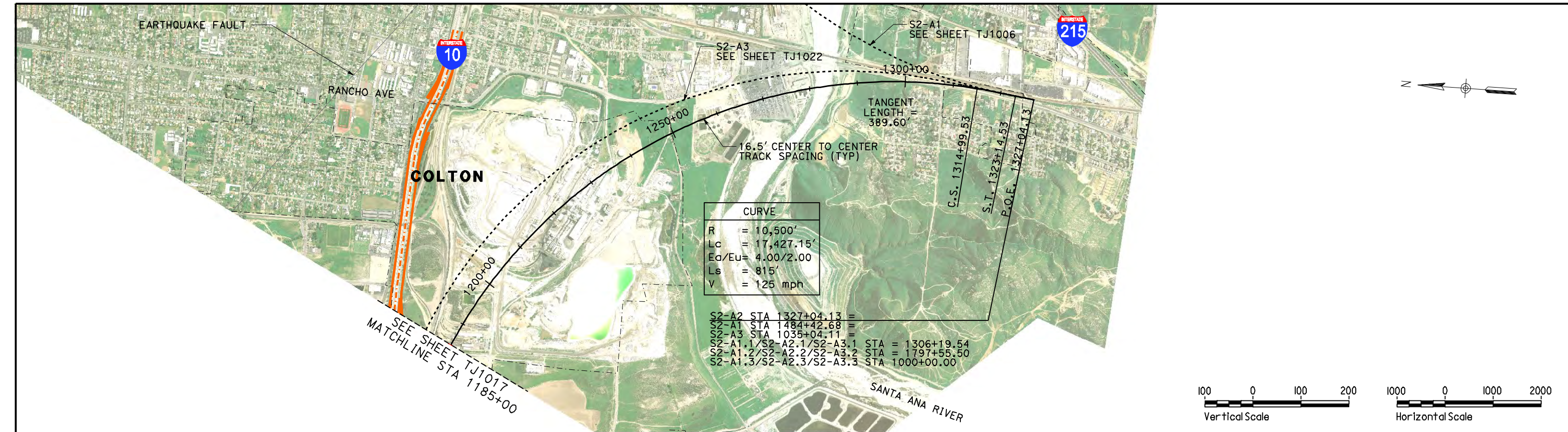


CALIFORNIA HIGH-SPEED RAIL AUTHORITY

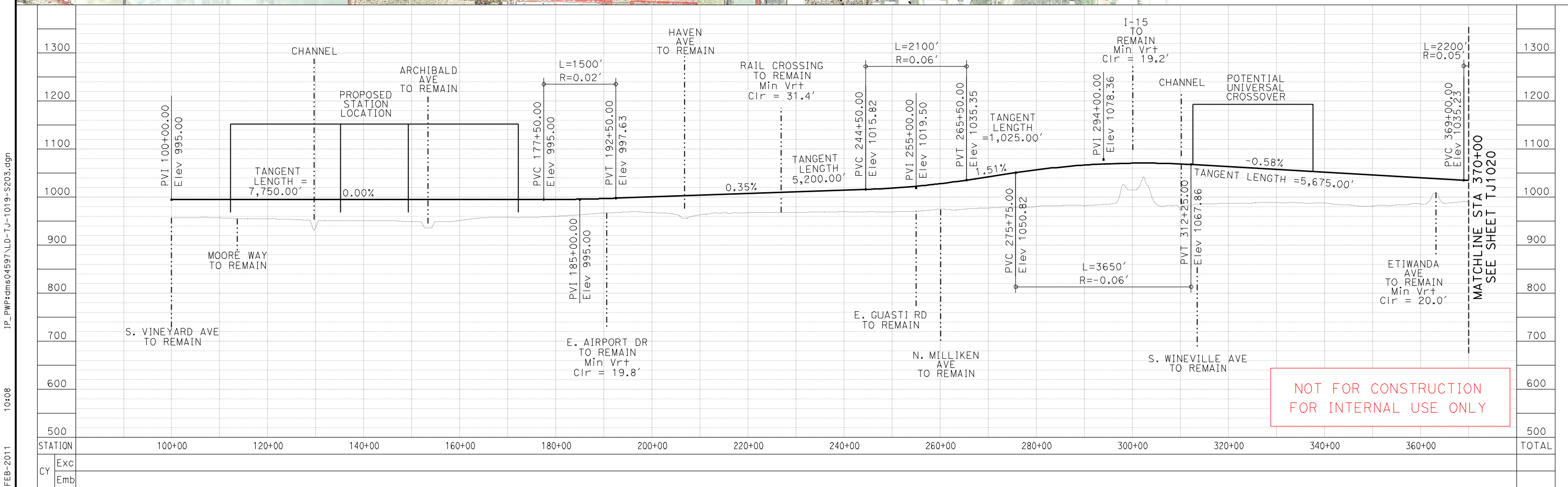
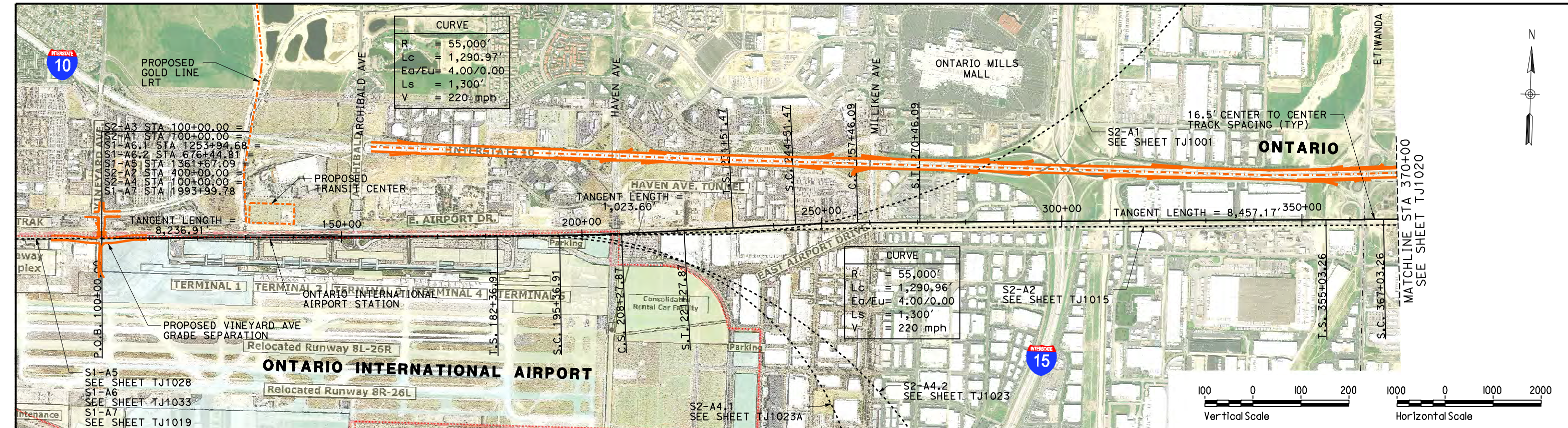
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 2-Ontario to Murrieta/Temecula
S2-A2: UPRR Riverside & South along I-215
Plan and Profile

CONTRACT NO.
DRAWING NO. TJ1017
SCALE As Shown
SHEET NO. 27

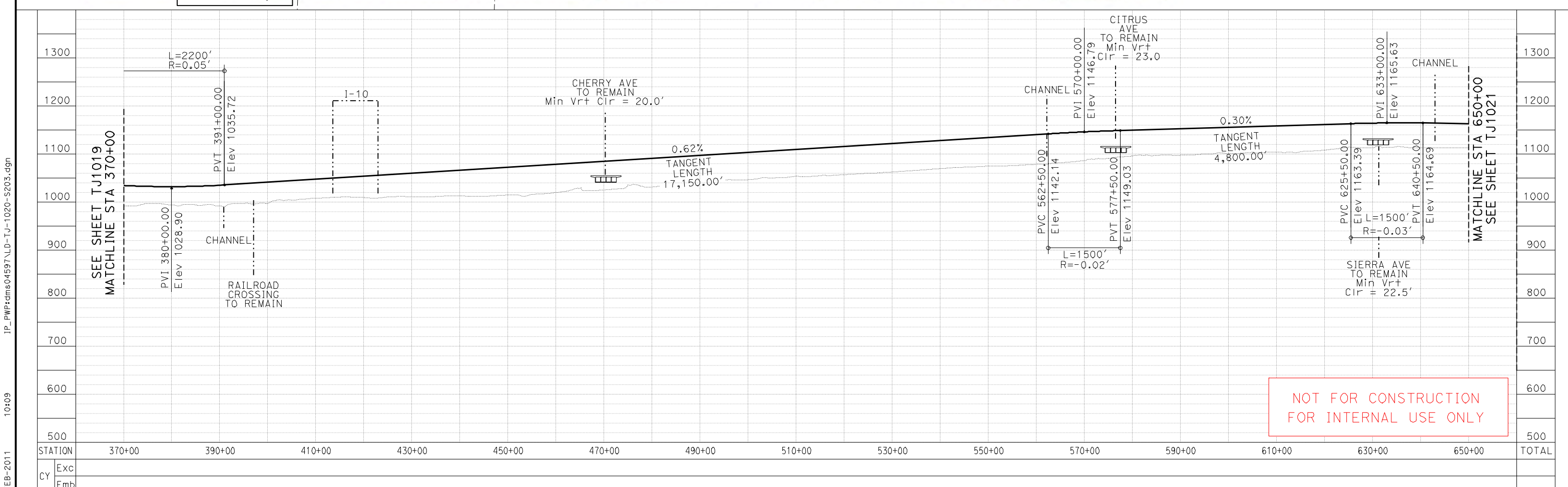
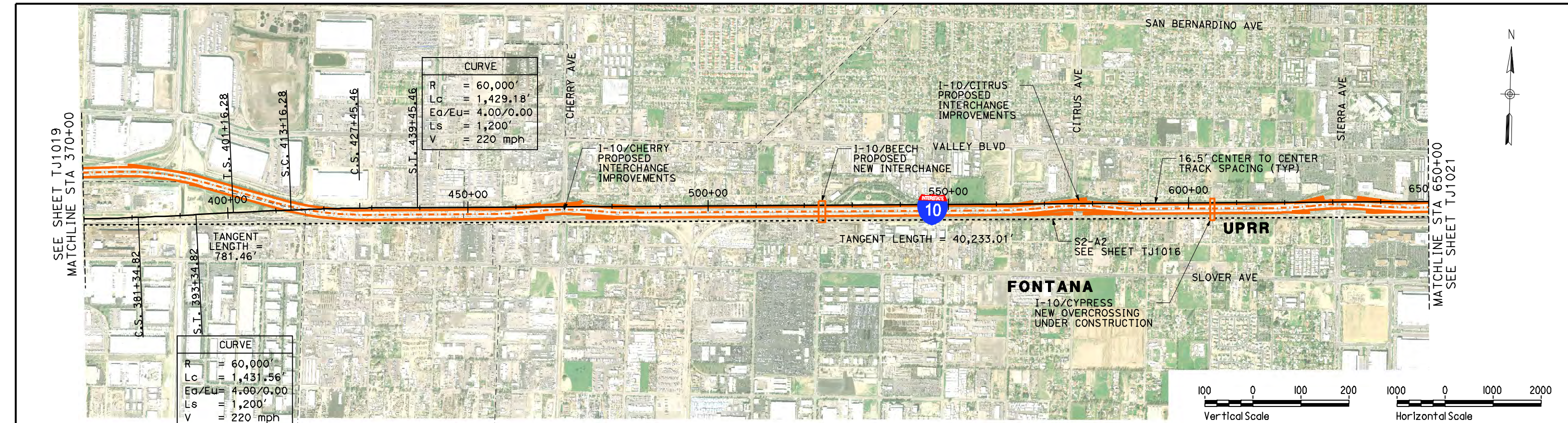


REV					DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY A. Trough	HNTB 401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION Subsection 2-Ontario to Murrieta/Temecula S2-A2: UPRR Riverside & South along I-215 Plan and Profile		CONTRACT NO.
										DRAWING NO. TJ1018					
										SCALE As Shown					
										SHEET NO. 28					



C. SWANSON							DESIGNED BY A. Trough	HNTB 401 B Street Suite 302 San Diego, CA 92101	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CONTRACT NO. DRAWING NO. TJ1019 SCALE As Shown SHEET NO. 29
							DRAWN BY C. Swanson			
							CHECKED BY R. Simon			
							IN CHARGE M. Zdon			
							DATE 3-3-2011			
	REV	DATE	BY	CHK	APP	DESCRIPTION				

CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION									
Subsection 2-Ontario to Murrieta/Temecula S2-A3: I-10 Riverside & South along I-215 Plan and Profile									



DESIGNED BY A. Truong					DRAWN BY C. Swanson					CHECKED BY R. Simon					IN CHARGE M. Zdon					DATE 3-3-2011				
REV					DATE					BY					CHK					APP				
DESCRIPTION																								

CONTRACT NO.					DRAWING NO.					TJ1020					SCALE					As Shown				
SHEET NO.					30																			

HNTB					401 B Street Suite 302 San Diego, CA 92101					CALIFORNIA HIGH-SPEED RAIL AUTHORITY					CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION					Subsection 2-Ontario to Murrieta/Temecula S2-A3: I-10 Riverside & South along I-215 Plan and Profile				
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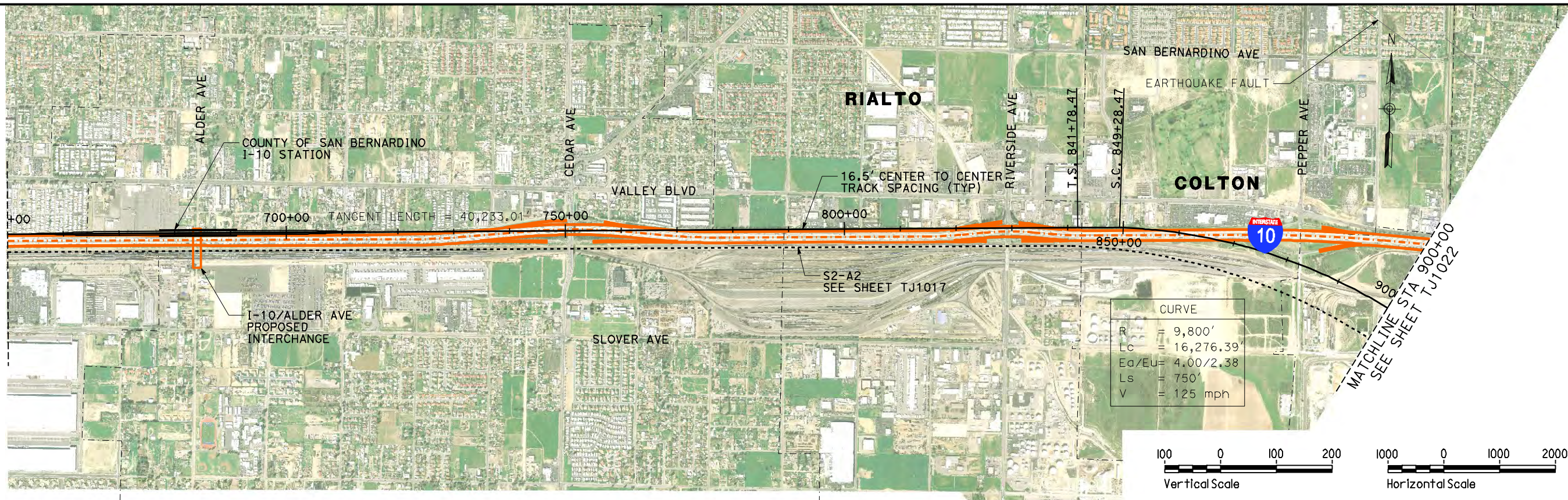
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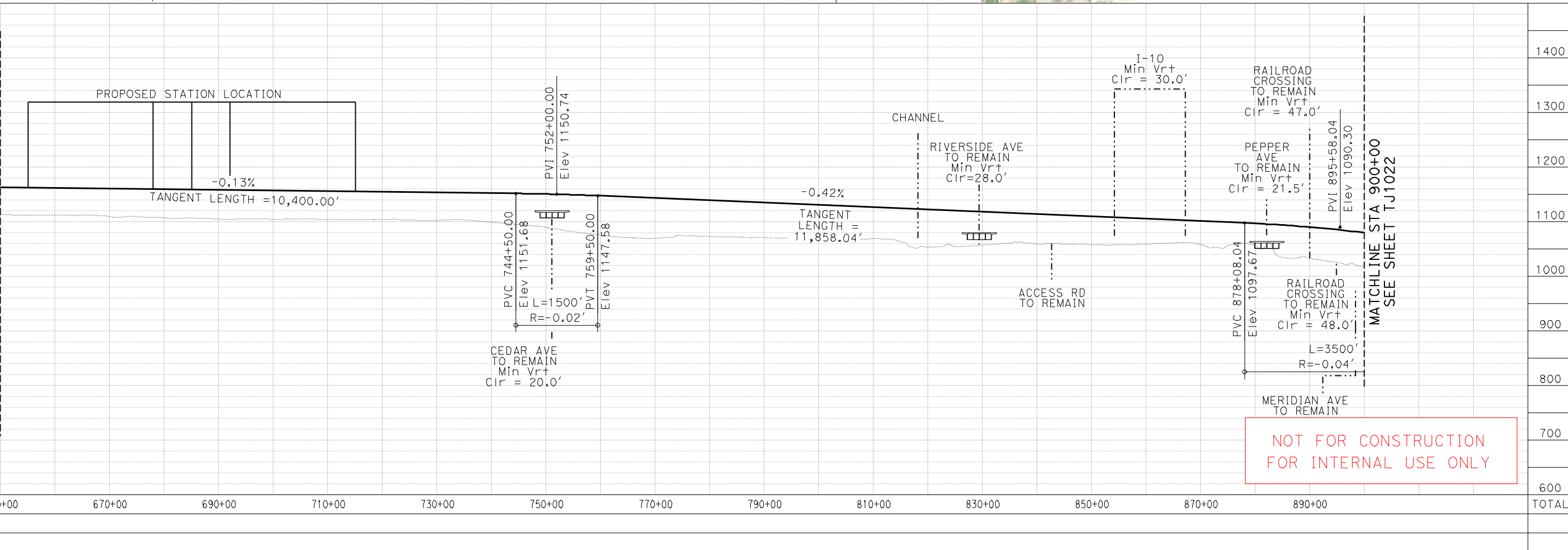
15-FEB-2011

caswanson

SEE SHEET TJ1020
MATCHLINE STA 650+00



SEE SHEET TJ1020
MATCHLINE STA 650+00



DESIGNED BY
A. Trough
DRAWN BY
C. Swanson
CHECKED BY
R. Simon
IN CHARGE
M. Zdon
DATE
3-3-2011

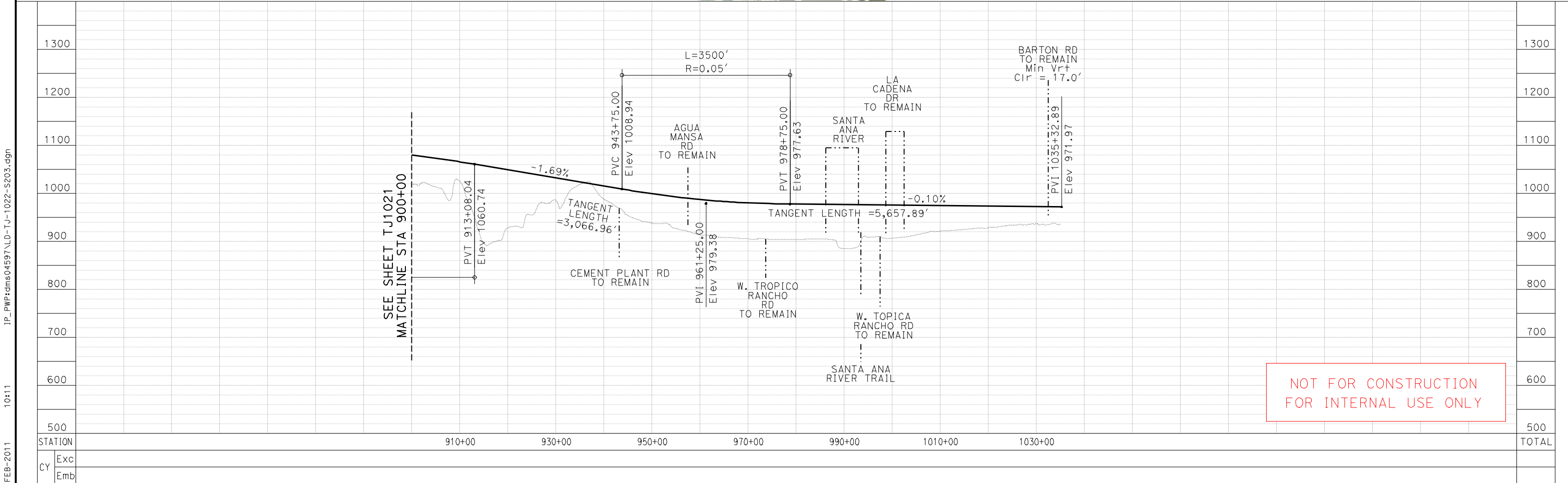
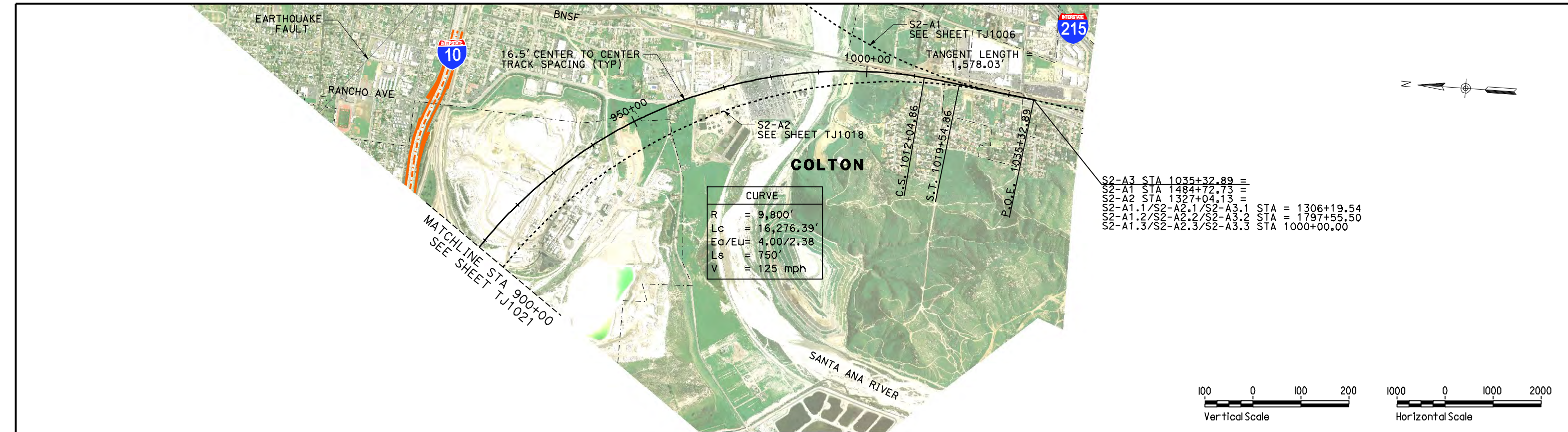
HNTB 401 B Street
Suite 302
San Diego, CA 92101
CH2MHILL



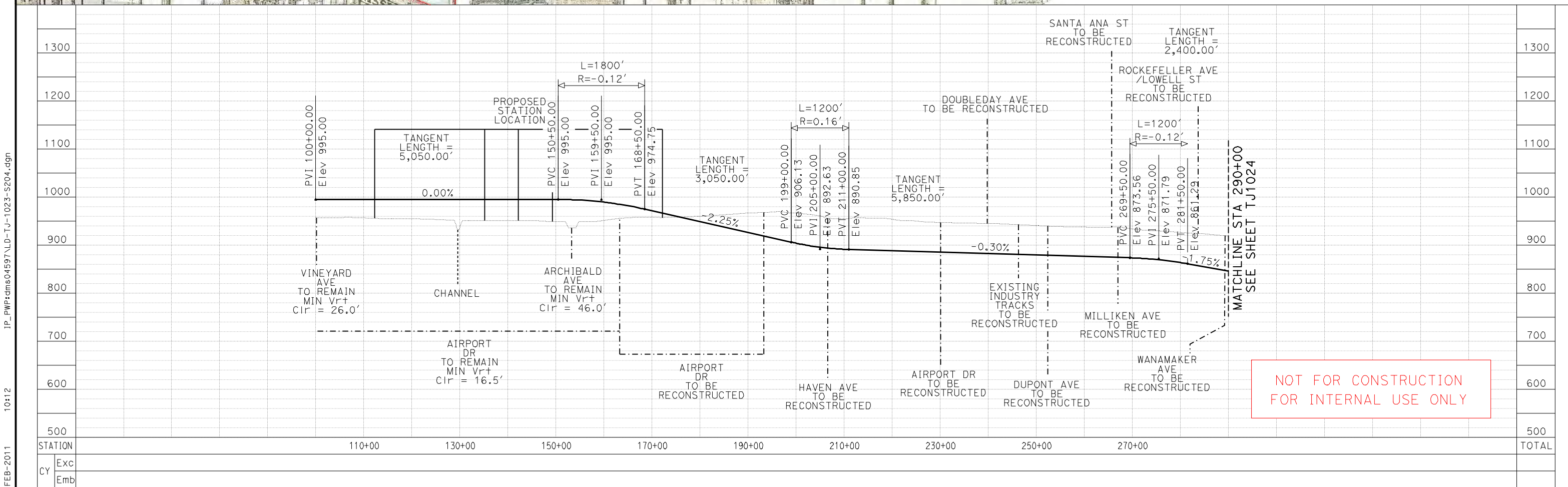
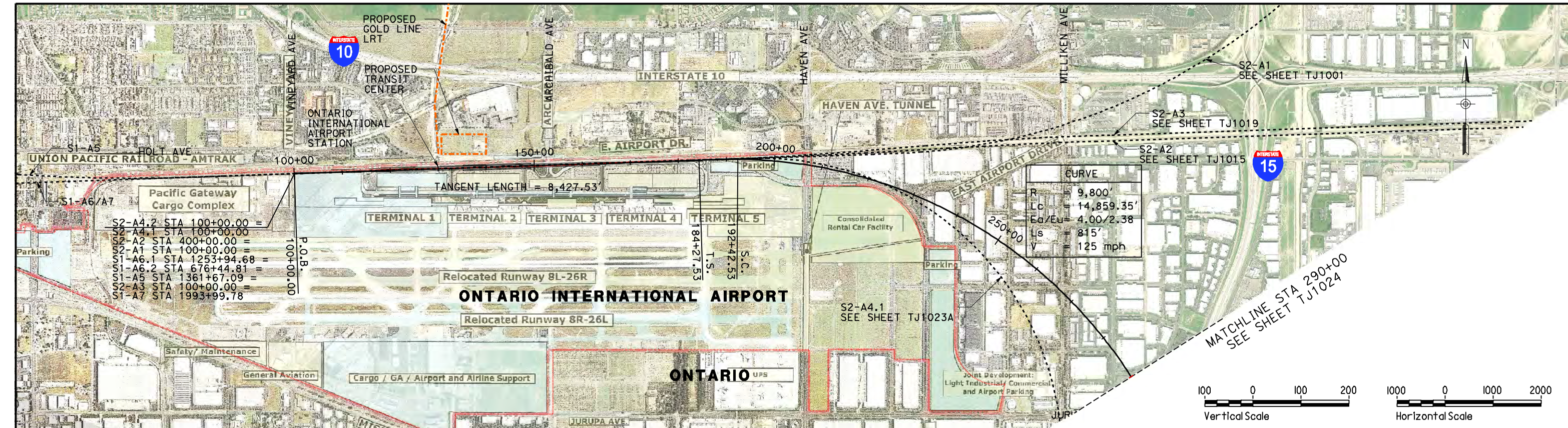
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**
Subsection 2-Ontario to Murrieta/Temecula
S2-A3: I-10 Riverside & South along I-215
Plan and Profile

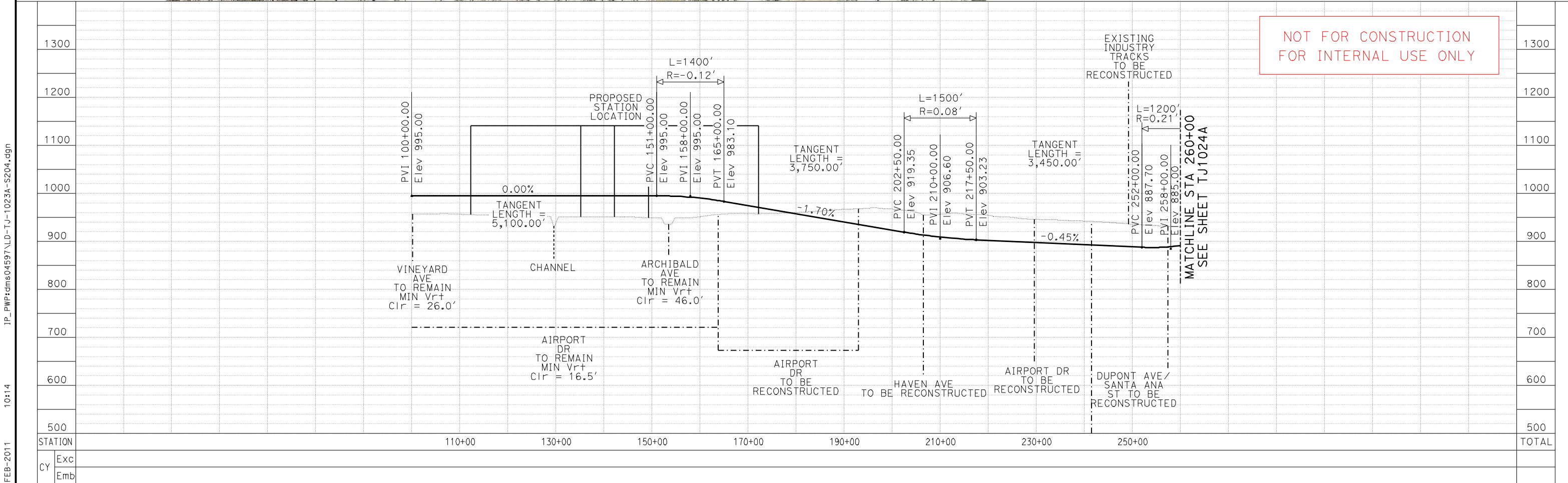
CONTRACT NO.
DRAWING NO.
TJ1021
SCALE
As Shown
SHEET NO.
31



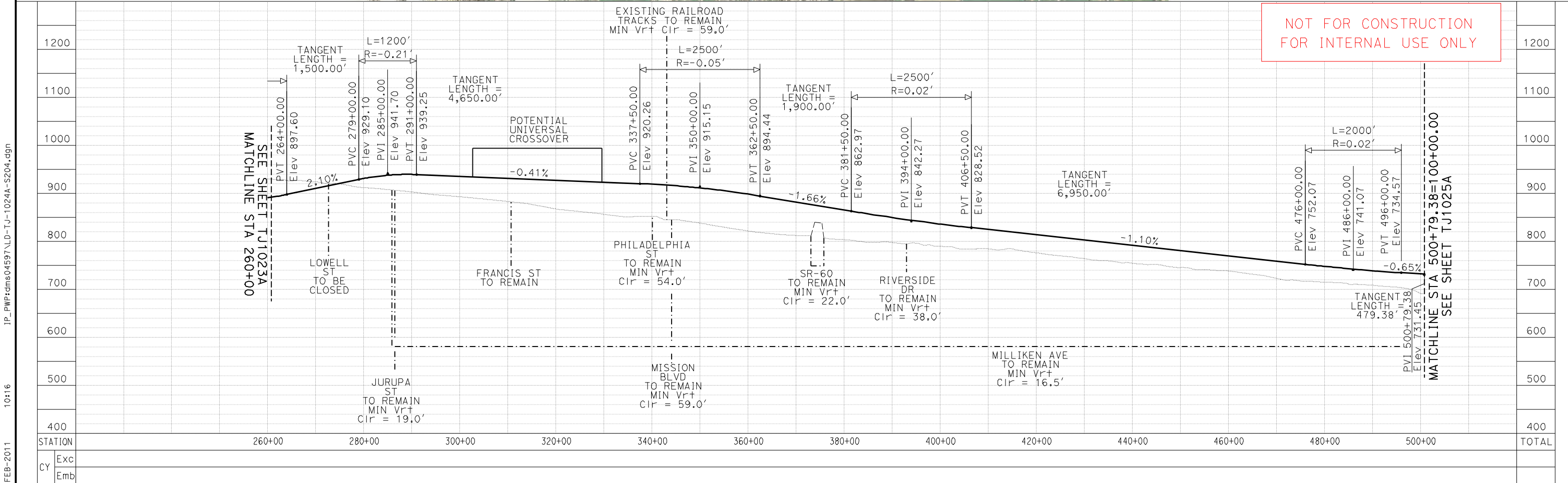
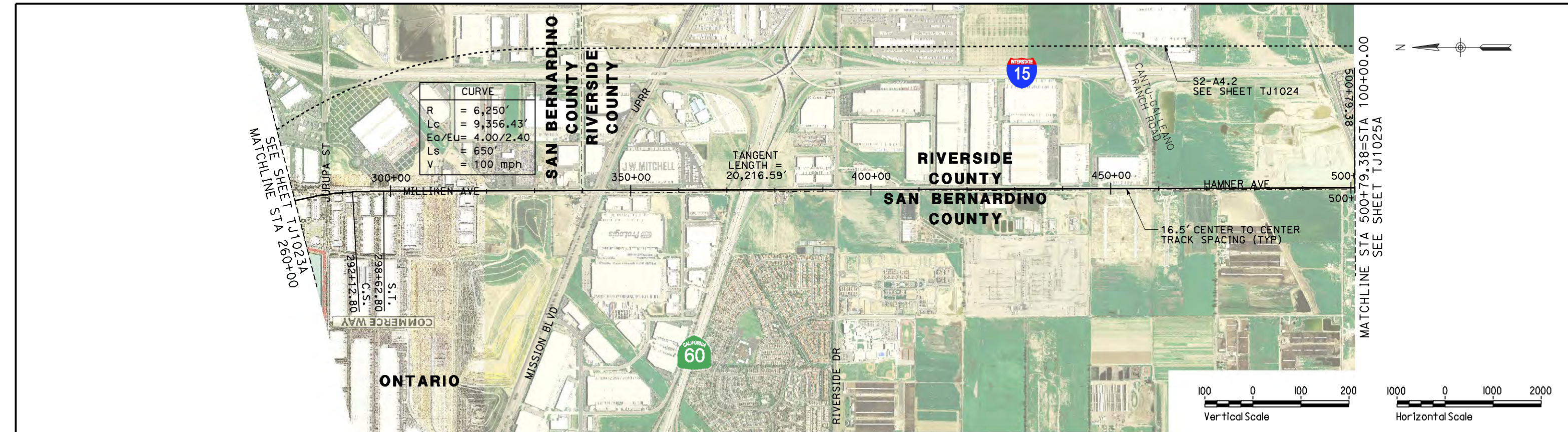
REV					DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY A. Trough	HNTB 401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION Subsection 2-Ontario to Murrieta/Temecula S2-A3: I-10 Riverside & South along I-215 Plan and Profile		CONTRACT NO.
									DRAWING NO. TJ1022						
									SCALE As Shown						
									SHEET NO. 32						



DESIGNED BY A. Troung DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011					HNTB 401 B Street Suite 302 San Diego, CA 92101				CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION Subsection 2-Ontario to Murrieta/Temecula S2-A4.2: I-15 Corridor - I-15 to Corona Plan and Profile		CONTRACT NO. DRAWING NO. TJ1023 SCALE As Shown SHEET NO. 33	
REV	DATE	BY	CHK	APP	DESCRIPTION							



DESIGNED BY A. Troung					 401 B Street Suite 302 San Diego, CA 92101	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION Subsection 2-Ontario to Murrieta/Temecula S2-A4.1: I-15 Corridor-Miliken/Hammer to Corona Plan and Profile		CONTRACT NO.
DRAWN BY C. Swanson									DRAWING NO. TJ1023A
CHECKED BY R. Simon									SCALE As Shown
IN CHARGE M. Zdon									SHEET NO. 34
DATE 3-3-2011									
REV	DATE	BY	CHK	APP	DESCRIPTION				



15-FEB-2011 10:16 IP_PWP:dms04597\LD-TJ-1024A-S204.dgn

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. Trough

DRAWN BY
C. Swanson

CHECKED BY
R. Simon

IN CHARGE
M. Zdon

DATE
3-3-2011

HNTB
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Suite 302
San Diego, CA 92101

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 2-Ontario to Murrieta/Temecula
S2-A4.1: I-15 Corridor-Miliken/Hamner to Corona
Plan and Profile

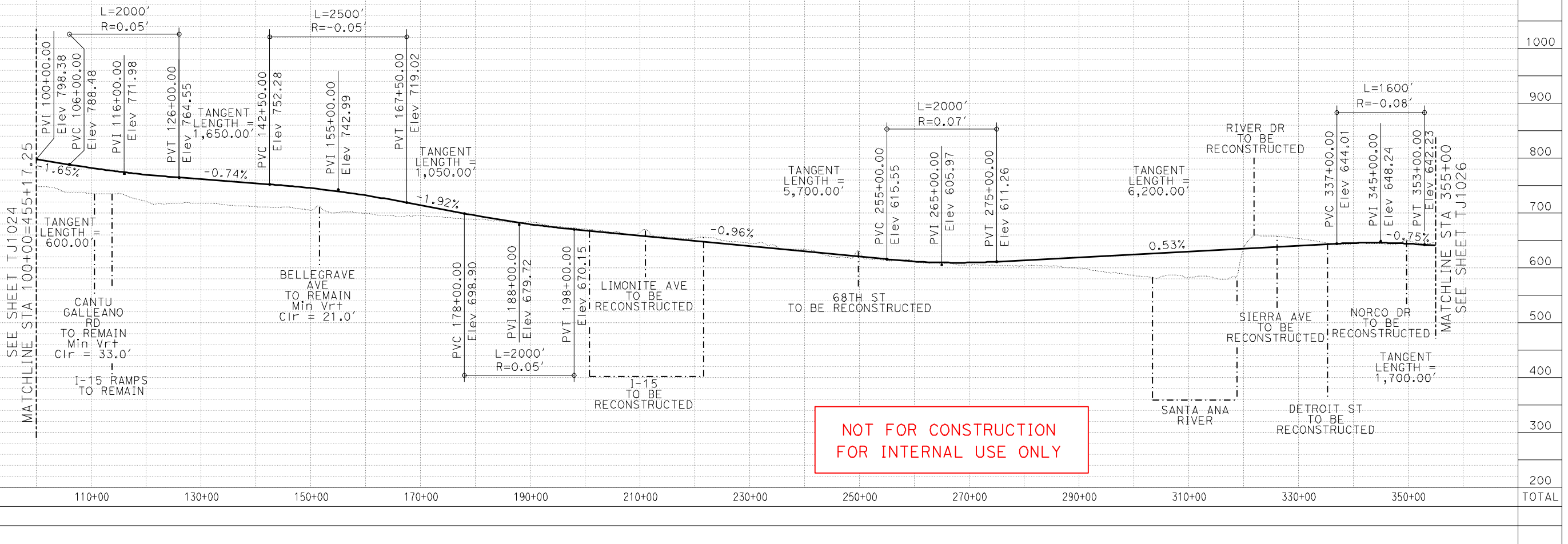
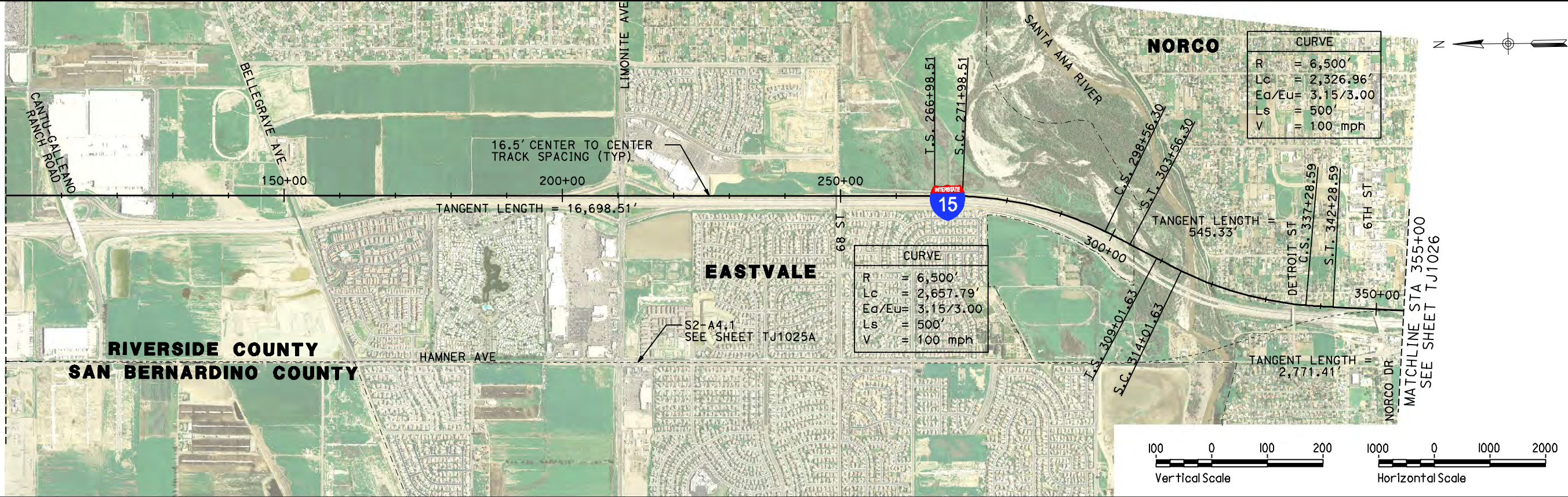
CONTRACT NO.

DRAWING NO.
TJ1024A

SCALE
As Shown

SHEET NO.
36

SEE SHEET TJ1024
MATCHLINE STA 100+00=455+17.25




REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. Troung
DRAWN BY C. Swanson
CHECKED BY R. Simon
IN CHARGE M. Zdon
DATE 3-3-2011



401 B Street
Suite 302
San Diego, CA 92101





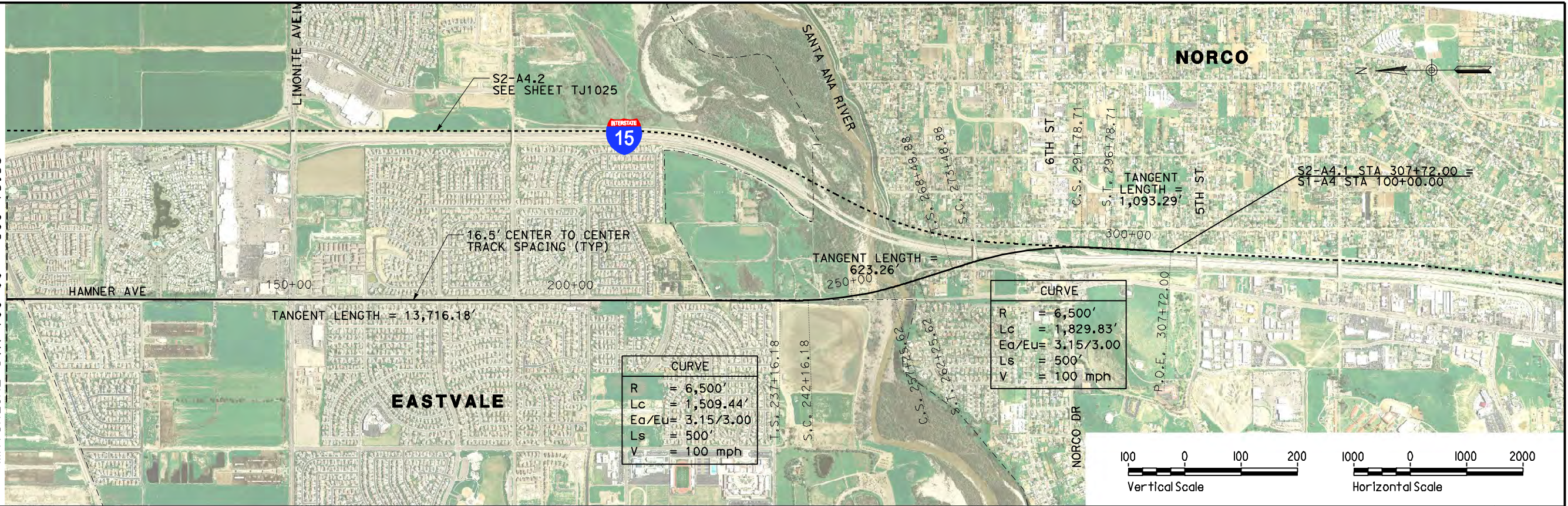
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 2-Ontario to Murrieta/Temecula
S2-A4.2: I-15 Corridor - I-15 to Corona
Plan and Profile

CONTRACT NO.
DRAWING NO. TJ1025
SCALE As Shown
SHEET NO. 37

SEE SHEET TJ1024A
MATCHLINE STA 100+00 = 500+79.38



SEE SHEET TJ1024A
MATCHLINE STA 100+00=500+79.38

PVI 100+00.00
Elev 731.45

BELLEGRAVE AVE
TO REMAIN
MIN Vrt
Clr = 23.0'

AMBERHILL AVE
TO REMAIN

LIMONITE AVE
TO REMAIN
MIN Vrt
Clr = 20.0'

OAKDALE RD
TO REMAIN

65TH ST
TO REMAIN

68TH ST
TO REMAIN
MIN Vrt
Clr = 25.0'

-0.65%

TANGENT
LENGTH =
13,500.00'

PVC 235+00.00
Elev 643.70

L=2000'
R=0.12'

TANGENT
LENGTH =
726.47'

OLD HAMNER AVE
TO REMAIN

TANGENT
LENGTH =
673.53'

L=1200'
R=0.11'

PVI 245+00.00
Elev 637.20

PVC 262+26.47
Elev 667.39

PVT 255+00.00
Elev 654.69

1.75%

SANTA ANA RIVER

PVI 272+26.47
Elev 684.88

L=2000'
R=0.19'

PVT 282+26.47
Elev 664.70

1-15
TO REMAIN

DETROIT ST
TO REMAIN
MIN Vrt
Clr = 19.0'

PVC 289+00.00
Elev 651.11

PVI 295+00.00
Elev 639.00

PVT 301+00.00
Elev 634.50

2.02%

NORCO DR
TO BE
RECONSTRUCTED

TANGENT
LENGTH =
672.00'

PVI 307+72.00
Elev 629.46

0.75%

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

1000

900

800

700

600

500

400

300

200

STATION

Exc

Emb

110+00

130+00

150+00

170+00

190+00

210+00

230+00

250+00

270+00

290+00

310+00

330+00

1000

900

800

700

600

500

400

300

200

TOTAL

DESIGNED BY
A. Troung
DRAWN BY
C. Swanson
CHECKED BY
R. Simon
IN CHARGE
M. Zdon
DATE
3-3-2011

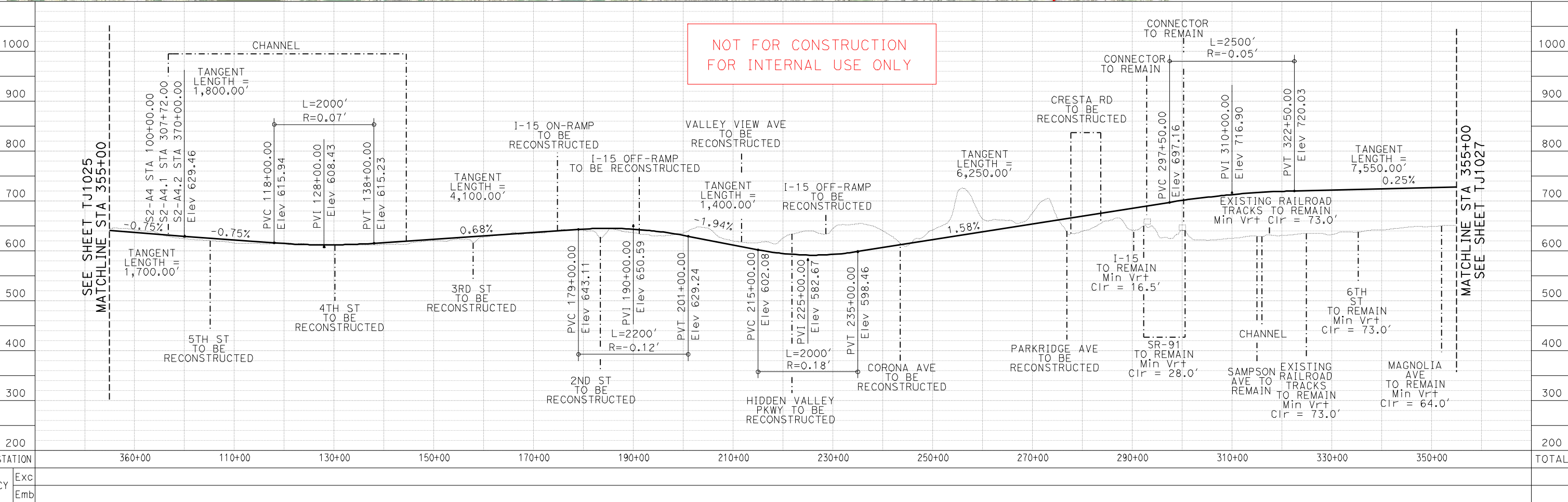
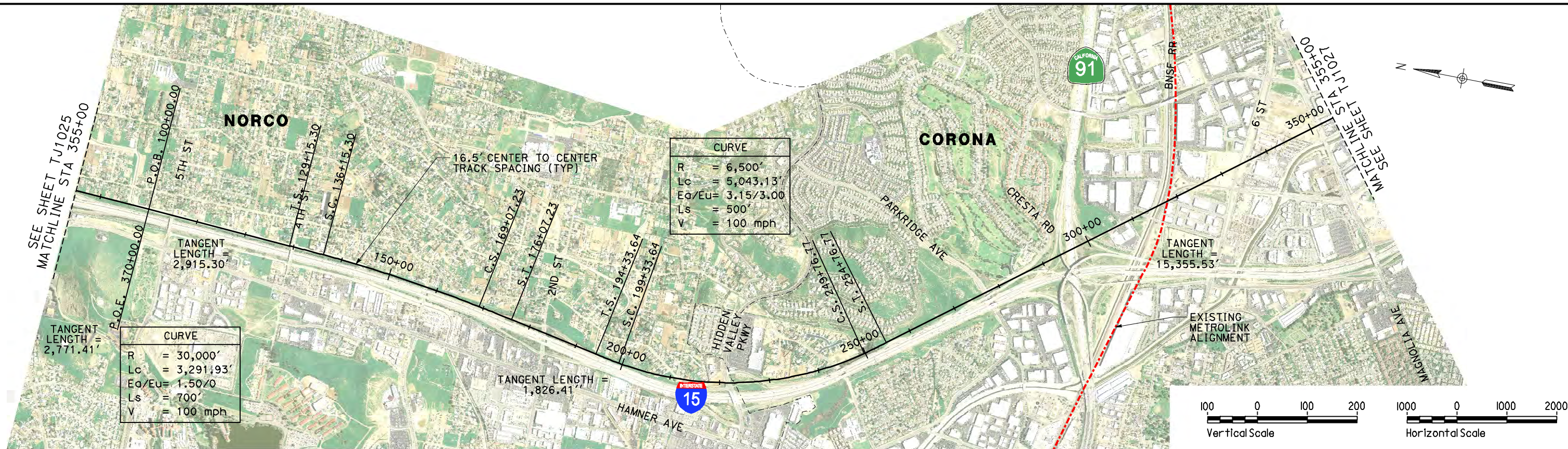
HNTB 401 B Street
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San Diego, CA 92101
CH2MHILL



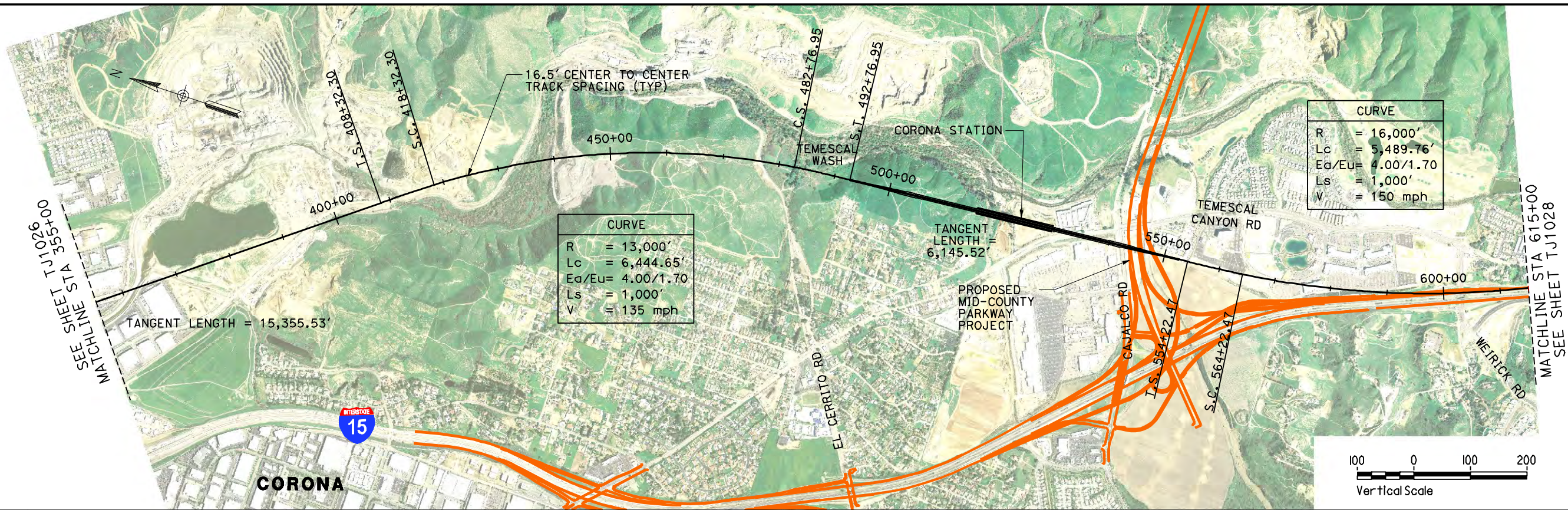
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**
Subsection 2-Ontario to Murrieta/Temecula
S2-A4.1: I-15 Corridor-Miliken/Hamner to Corona
Plan and Profile

CONTRACT NO.
DRAWING NO.
TJ1025A
SCALE
As Shown
SHEET NO.
38

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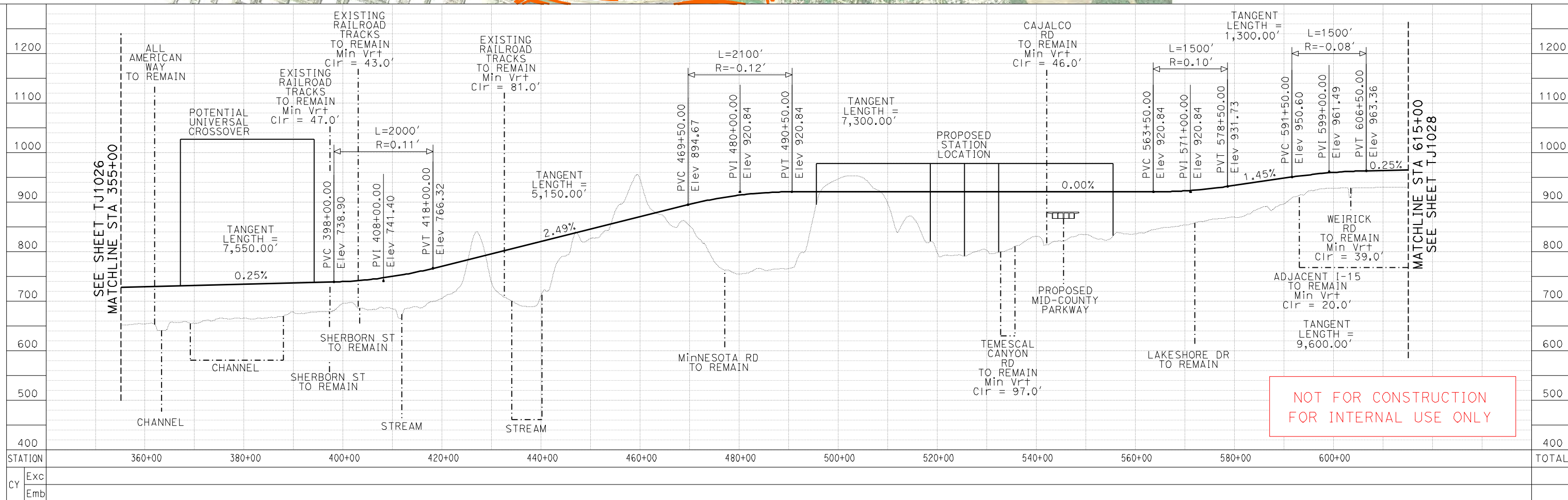
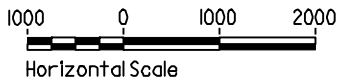
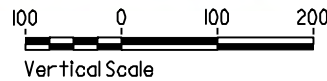


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CURVE	
R	= 16,000'
Lc	= 5,489.76'
Ea/Eu	= 4.00/1.70
Ls	= 1,000'
V	= 150 mph

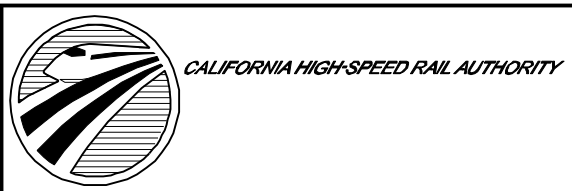
CURVE	
R	= 13,000'
Lc	= 6,444.65'
Ea/Eu	= 4.00/1.70
Ls	= 1,000'
V	= 135 mph



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

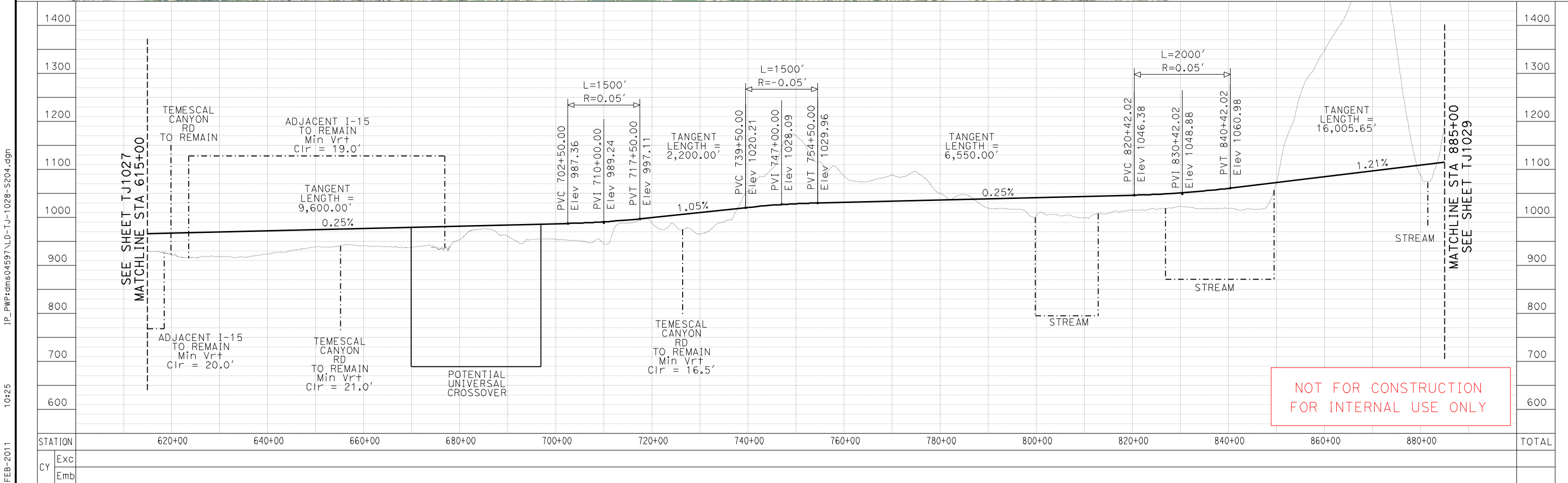
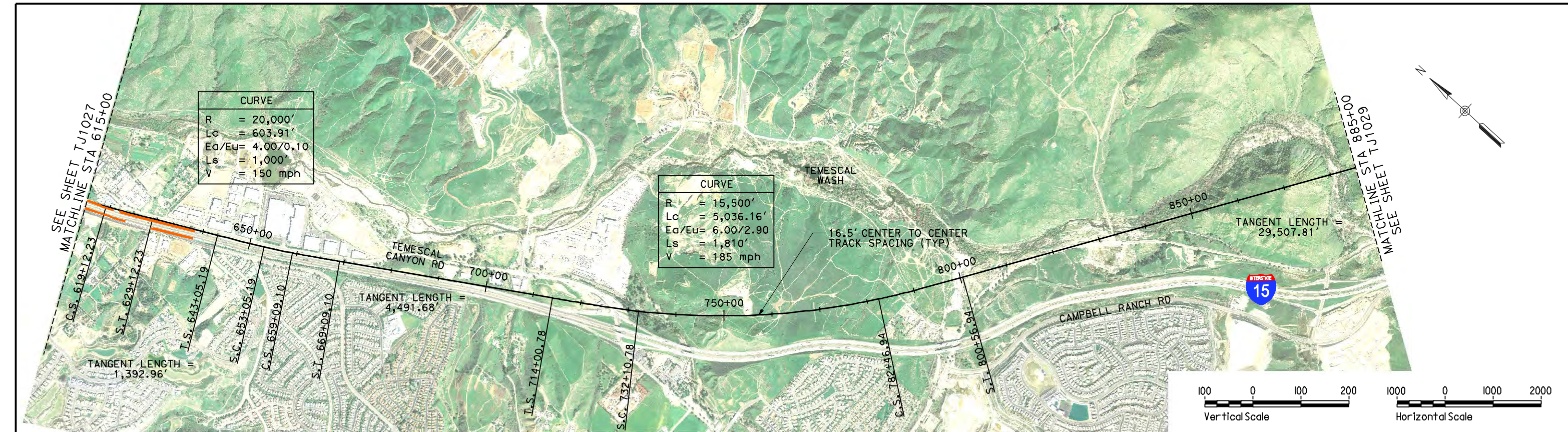
DESIGNED BY A. Troung
DRAWN BY C. Swanson
CHECKED BY R. Simon
IN CHARGE M. Zdon
DATE 3-3-2011



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 2-Ontario to Murrieta/Temecula
S2-A4: I-15 Corridor
Plan and Profile

CONTRACT NO.
DRAWING NO. TJ1027
SCALE As Shown
SHEET NO. 40



<div>DESIGNED BY A. Truong DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011</div>					<div>HNTB 401 B Street Suite 302 San Diego, CA 92101</div> <div>CH2MHILL</div>		<div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>		<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 2-Ontario to Murrieta/Temecula S2-A4: I-15 Corridor Plan and Profile</div>		<div>CONTRACT NO. DRAWING NO. TJ1028 SCALE As Shown SHEET NO. 41</div>	
REV	DATE	BY	CHK	APP	DESCRIPTION							

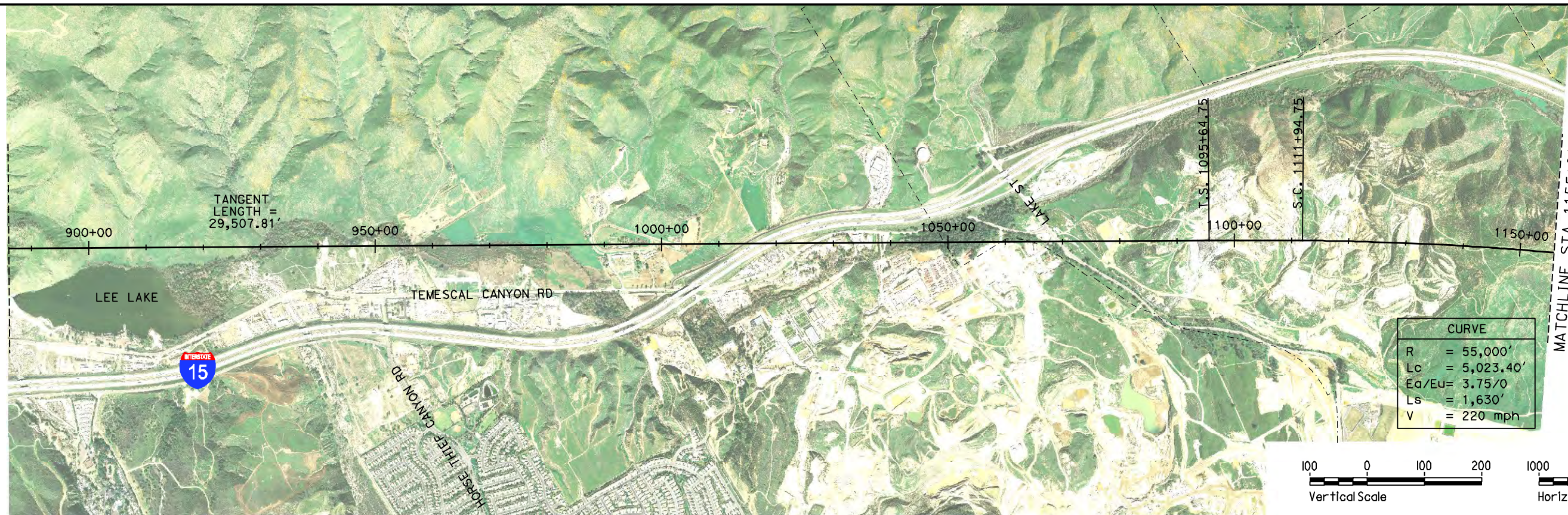
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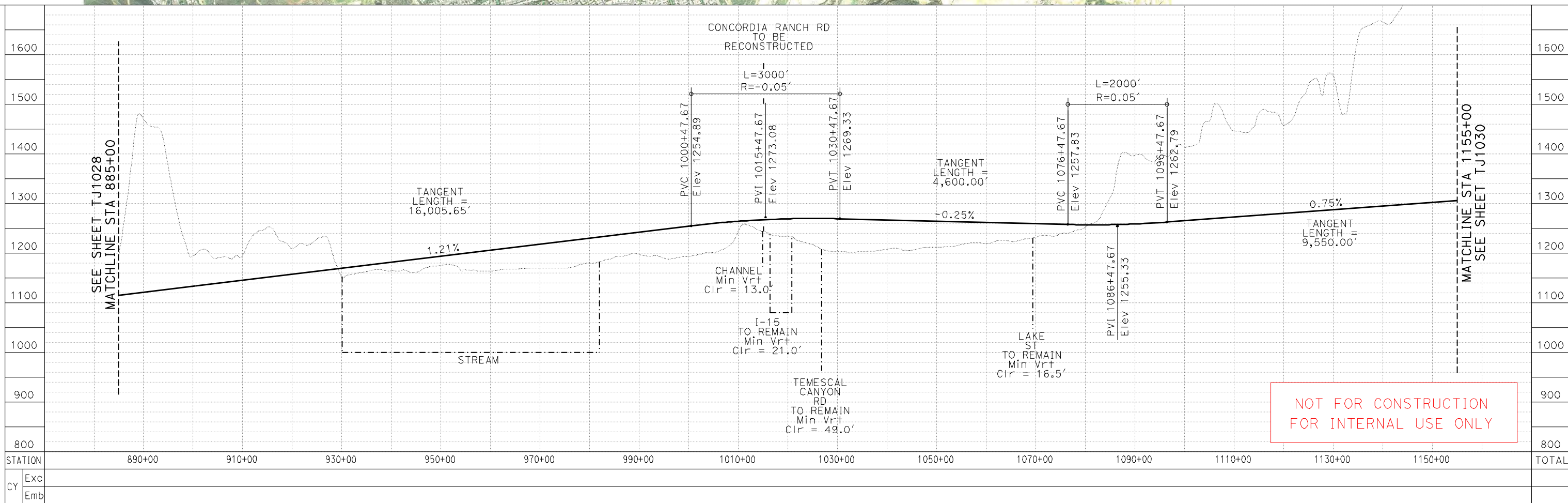
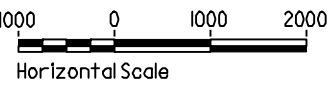
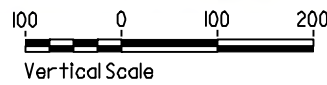
15-FEB-2011

caswanson

SEE SHEET TJ1028
MATCHLINE STA 885+00



CURVE	
R	= 55,000'
Lc	= 5,023.40'
Ea/Eu	= 3.75/0
Ls	= 1,630'
V	= 220 mph



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY


STATION	890+00	910+00	930+00	950+00	970+00	990+00	1010+00	1030+00	1050+00	1070+00	1090+00	1110+00	1130+00	1150+00	TOTAL
CY	Exc														
	Emb														

DESIGNED BY	A. Trough
DRAWN BY	C. Swanson
CHECKED BY	R. Simon
IN CHARGE	M. Zdon
DATE	3-3-2011



401 B Street
Suite 302
San Diego, CA 92101



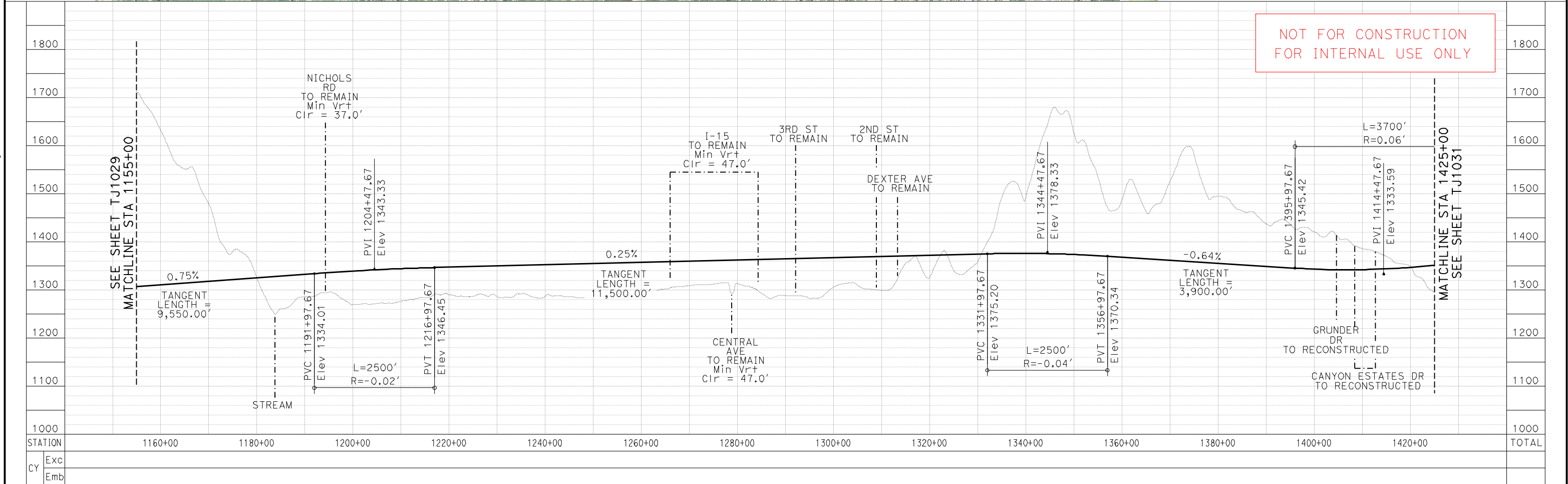
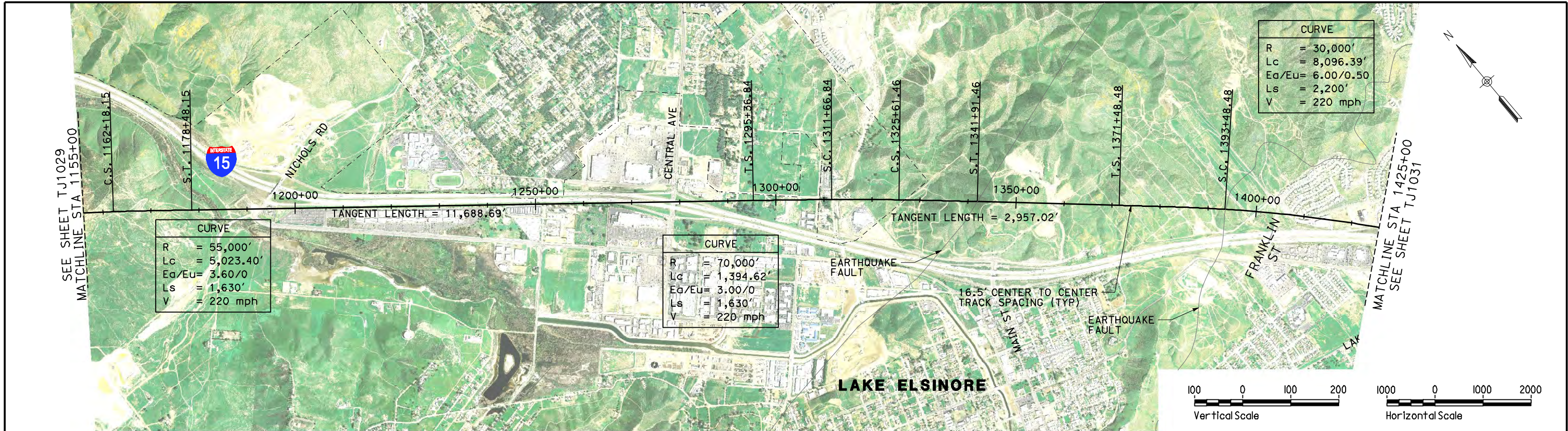


CALIFORNIA HIGH-SPEED RAIL AUTHORITY

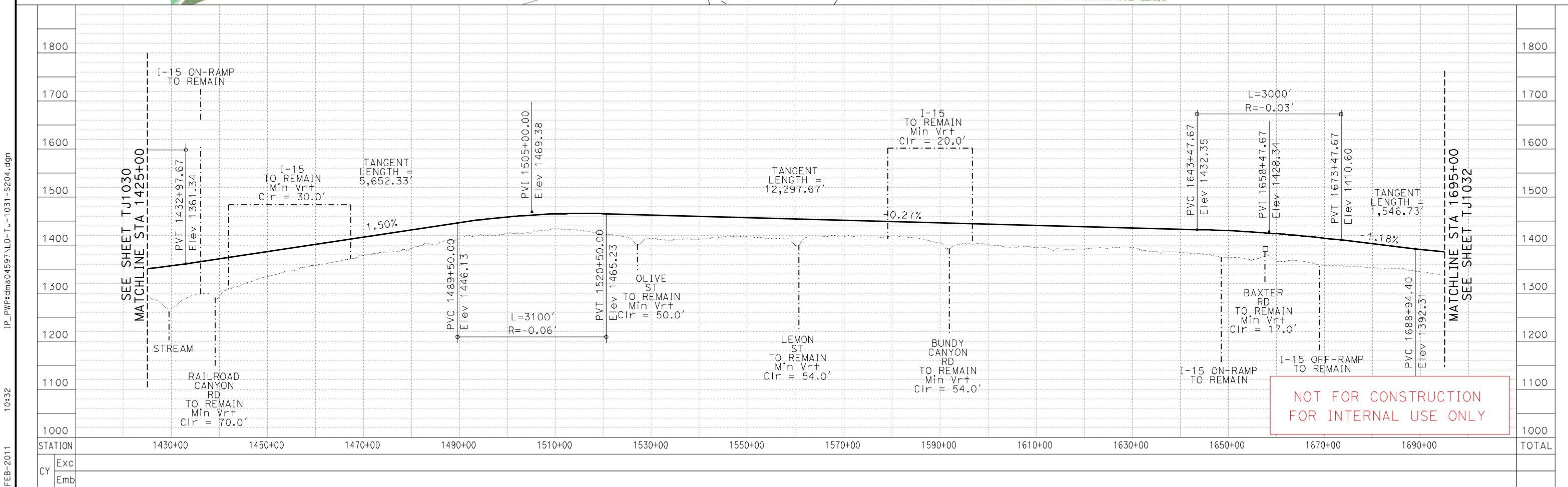
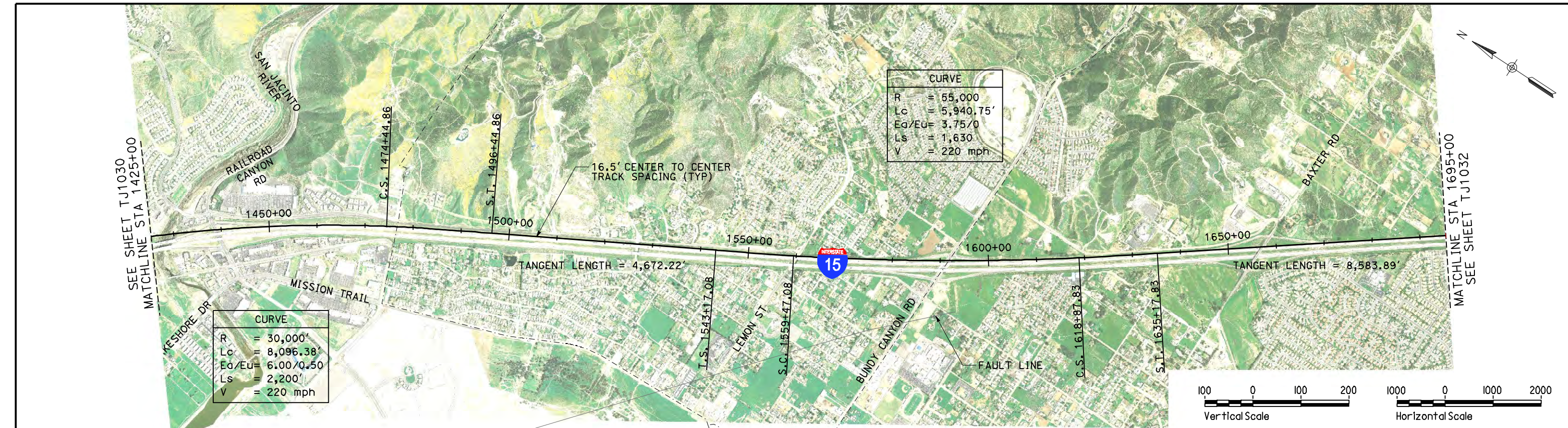
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 2-Ontario to Murrieta/Temecula
S2-A4: I-15 Corridor
Plan and Profile

CONTRACT NO.	
DRAWING NO.	TJ1029
SCALE	As Shown
SHEET NO.	42



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1 C. SWANSON							DESIGNED BY A. Troung	<div>HNTB</div> <div>401 B Street Suite 302 San Diego, CA 92101</div>	<div></div> <div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>	<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 2-Ontario to Murrieta/Temecula S2-A4: I-15 Corridor Plan and Profile</div>	CONTRACT NO.
							DRAWING NO. TJ1031				
							SCALE As Shown				
							SHEET NO. 44				
	REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 3-3-2011				

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DESCRIPTION

DESIGNED BY
A. Troung
DRAWN BY
C. Swanson
CHECKED BY
R. Simon
IN CHARGE
M. Zdon
DATE
3-3-2011

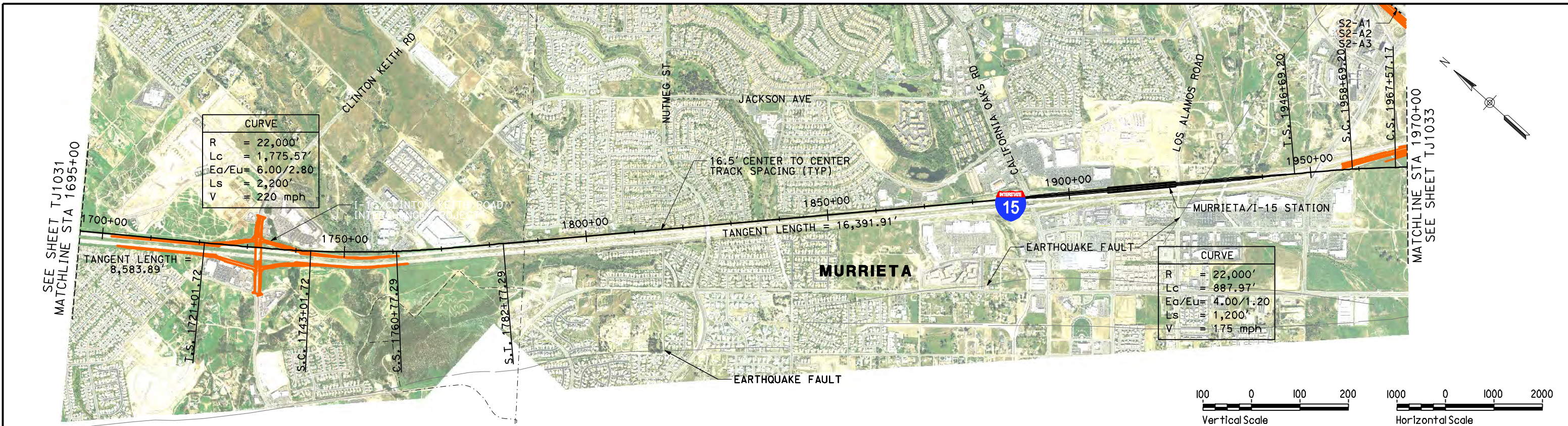
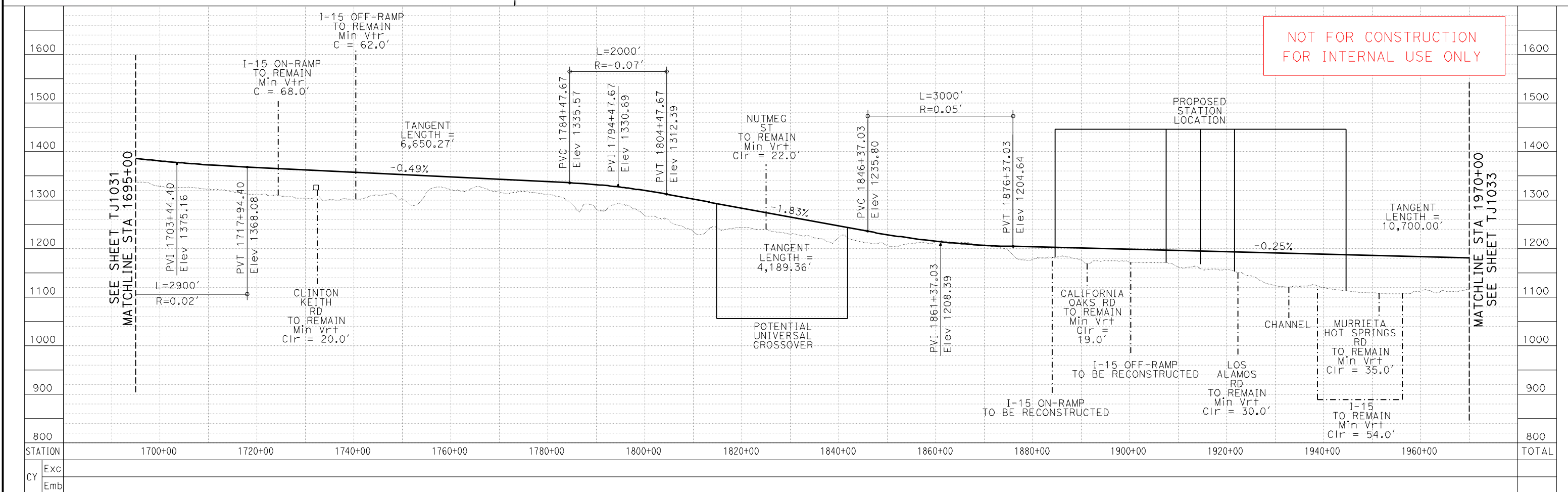
HNTB
401 B Street
Suite 302
San Diego, CA 92101
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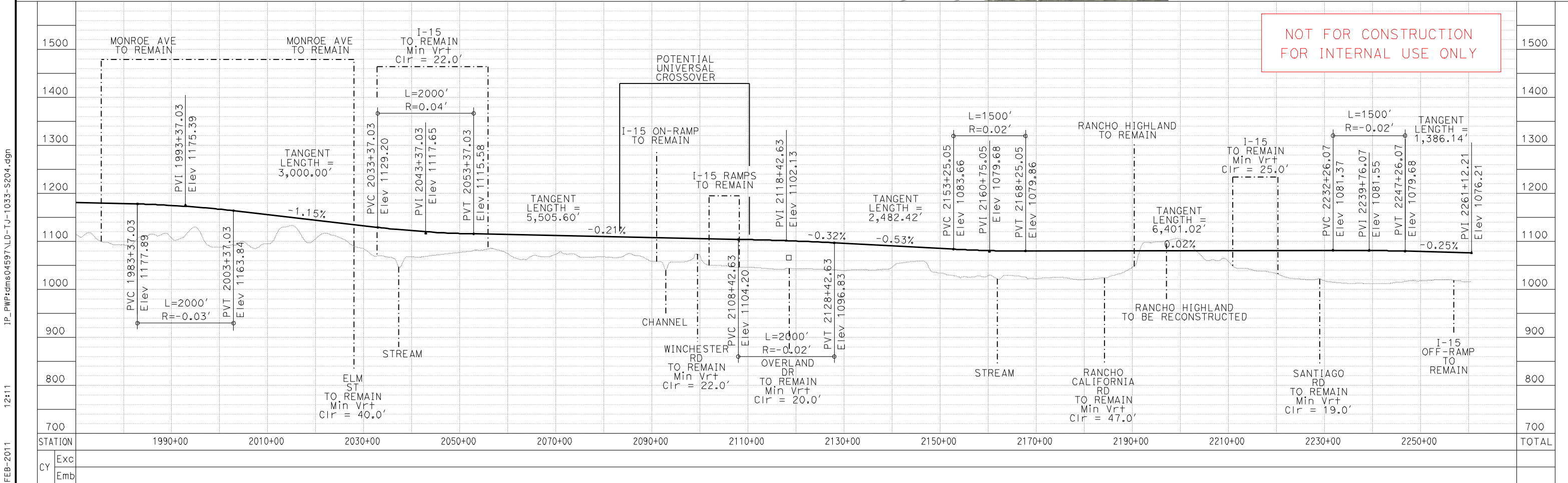
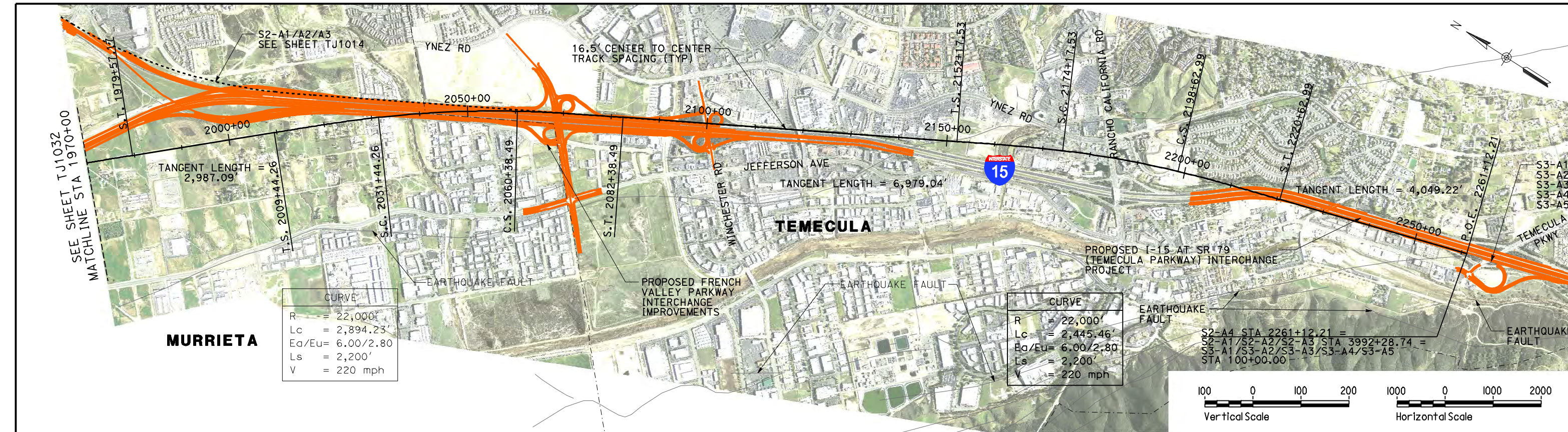


CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**
Subsection 2-Ontario to Murrieta/Temecula
S2-A4: I-15 Corridor
Plan and Profile

CONTRACT NO.
DRAWING NO.
TJ1032
SCALE
As Shown
SHEET NO.
45





DESIGNED BY
A. Troung
DRAWN BY
C. Swanson
CHECKED BY
R. Simon
IN CHARGE
M. Zdon
DATE
3-3-2011

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401 B Street
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San Diego, CA 92101
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**
Subsection 2-Ontario to Murrieta/Temecula
S2-A4: I-15 Corridor
Plan and Profile

CONTRACT NO.
DRAWING NO.
TJ1033
SCALE
As Shown
SHEET NO.
46